Docket # 50 - 286 Control #8 3/2060 165 Date 11/30 (830f Document: Production of the production of the

Indian Point 3 Nuclear Power Plant

Systems
Interaction
Study Report

Volume 11



Indian Point 3 Nuclear Power Plant

Systems
Interaction
Study Report

Volume 11

COPY NUMBER ____5



POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY

NON-CONNECTED INTERACTIONS EVALUATION

- 1. No Interaction Source is Class II and is therefore supported adequately. (See response to IP-3 FSAR question 5.24).
- 2. Acceptable Source pipe/conduit is equal size or smaller in diameter and/or the same thickness or thinner wall than the target pipe/conduit/tubing. Paragraph 6.2.2.1a Volume I.
- 3. Acceptable Source has insufficient mass to damage the target component.
- 4. Acceptable Basis is engineering judgement. Specific justification is on the evaluation form.
- Potentially
 Unacceptable Discussion of specific is on the evaluation form.
- 6. Potentially
 Unacceptable Source pipe/conduit is large enough to damage target conduit/pipe/tubing.
- 7. Potentially
 Unacceptable Source will fall a sufficient distance, or has
 adequate mass Such that damage to target conduit/box/
 instrument/tubing/panel may be possible.
- 8. No Interaction Upon further investigation of the source, this portion of its system is designated Seismic I.

R2 7/22/82 R1 6/30/82 R0 6/26/82

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-128-3

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-PCV-1207

(not shown)

SOURCE: 8"-SCREENWASH HEADER (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

Jorge L. Rodriguez 8/9/82

INTERACTION ENGINEER / DATE

W A Griswold 9/9/82

VERIFIED/DATE

INTERACTION ENGINEER/DATE	VERIF	TED/DATE
Jorge L. Rodriguez 8/9/82	W A Griswold	9/9/82
ACCEPTABLE	x	POTENTIALLY UNACCEPTABLE
Source has adequate mass to damage target. F	urther evaluatior	required.
EVALUATION NOTE NO: 5.		
EVALUATION OF INTERACTION:		
Source falls on target		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: 8"-SCREENWASH HEADER (Black ar	row on the top ri	ight)
TARGET: 2"-SWN-64 (not shown)		
IDENTIFICATION OF INTERACTION COMPONENTS:	•	
IDENTIFICATION OF INTERACTION COMPONENTS -		
BACKGROUND NO.: 8-80		
PHOTOGRAPH NO.: M286		
POTENTIAL INTERACTION NO.: V-8-129-3		
LOCATION WITHIN FIRE ZONE: SERVICE WATER VALV	E PIT	
FIRE ZONE:		
BUILDING: INTAKE STRUCTURE		

BUILDING:	INTAKE	STRUCTURE
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FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-130-1

PHOTOGRAPH NO.: M285

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-65 (White arrow 2nd from the left bottom)

SOURCE: CONDUIT (White arrow on the top conduit connected to light is not

shown)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE POTENTIALLY UNACCEPTABLE

Jorge L. Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-130-2

PHOTOGRAPH NO.: M285

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-65 (White arrow 2nd from the left bottom)

SOURCE: LIGHT FIXTURE (White arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

Jorge L. Rodriguez 8/9/82 INTERACTION ENGINEER / DATE

W A Griswold 9/9/82

VERIFIED/DATE

BUILDING: INTAKE STRUCTURE	
FIRE ZONE:	
LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT	
POTENTIAL INTERACTION NO.: V-8-130-3	
PHOTOGRAPH NO.: M286	
BACKGROUND NO.: 8-80	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: 2"-SWN-65 (not shown)	
SOURCE: 8"-SCREENWASH HEADER (Black arrow on the top right)	
DESCRIPTION OF POSTULATED INTERACTION:	
Source falls on target	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 5	
Source has adequate mass to damage target. Further evaluation required.	
ACCEPTABLE × POTENTIALLY UNACCEPTABL	
Jorge L. Rodriguez 8/9/82 W A Griswold 9/9/82	
INTERACTION ENGINEER/DATE VERIFIED/DATE	_

Ebasco Services Incorporated

VERIFIED/DATE

System	No.	8	
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BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-131-3

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8 80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-PCV-1206

(not shown)

SOURCE: 8"-SCREENWASH HEADER (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

Jorge L. Rodriguez 8/9/82

INTERACTION ENGINEER / DATE

W A Griswold 9/9/82

VERIFIED/DATE

BUILI	DING:	INTAKE	STRUCTURE
FIRE	ZONE:		

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-132-3

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-64 (not shown)

SOURCE: 8"-SCREENWASH HEADER (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

ACCEPTABLE X POTENTIALLY UNACCEPTABLE

Jorge L. Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-133-1

PHOTOGRAPH NO.: M287

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-65

(White arrow on the bottom right)

SOURCE: CONDUIT

(White arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
-UNACCEPTABLE

Jorge L. Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

BUILDING: INTAKE STRUCTURE	
FIRE ZONE:	
LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT	
POTENTIAL INTERACTION NO.: V-8-133-3	
PHOTOGRAPH NO.: M286	
BACKGROUND NO.: 8-80	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: 2"-SWN-65 (not shown)	•
SOURCE: 8"-SCREENWASH HEADER (Black arrow on the t	op right)
DESCRIPTION OF POSTULATED INTERACTION:	
Source falls on target	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 5	
Source has adequate mass to damage target. Further evaluat	ion required.
ACCEPTABLE	POTENTIALLY UNACCEPTABL
Jorge L. Rodriguez 8/9/82 W A Griswol	d 9/9/82
INTERACTION ENGINEER/DATE VER	RIFIED/DATE

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-133-4

PHOTOGRAPH NO.: M287

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-65 (White arrow on the bottom right)

SOURCE: LIGHT FIXTURE (White arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

Jorge L. Rodriguez 8/9/82 INTERACTION ENGINEER / DATE

W A Griswold 9/9/82 VERIFIED/DATE

INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: INTAKE STRUCTURE
FIRE ZONE:
LOCATION WITHIN FIRE ZCNE: SERVICE WATER VALVE PIT
POTENTIAL INTERACTION NO.: V-8-134-2
PHOTOGRAPH NO.: M286
BACKGROUND NO.: 8-80
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: 2"-SWN-PCV-1205 (SOV-1205) (not shown)
SOURCE: 8"-SCREENWASH HEADER (Black arrow on the top right)
DESCRIPTION OF POSTULATED INTERACTION:
Source falls on target
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 5
Source has adequate mass to damage target. Further evaluation required.
POTENTIALLY
ACCEPTABLE X FOLENTIALLY UNACCEPTABLE
Jorge L. Rodriguez 8/9/82 W A Griswold 9/9/82

Ebasco Services Incorporated

VERIFIED/DATE

DITI DING. INTAUE CEDILORIDE	
BUILDING: INTAKE STRUCTURE	
FIRE ZONE:	
LOCATION WITHIN FIRE ZCNE: SERVICE WATER VALVE PIT	•
POTENTIAL INTERACTION NO.: V-8-135-2	
PHOTOGRAPH NO.: M286	
BACKGROUND NO.: 8-80	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: 2"-SWN-64 (not shown)	
SOURCE: 8"-SCREENWASH HEADER (Black arrow on the top right)	
DESCRIPTION OF POSTULATED INTERACTION:	
Source falls on target	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 5	
Source has adequate mass to damage target. Further evaluation requi	red.
ACCEPTABLE	POTENTIALLY -UNACCEPTABLE
Jorge L. Rodriguez 8/9/82 W A Griswold 9/9/82	
Jorge L. Rodriguez 8/9/82 W A Griswold 9/9/82 INTERACTION ENGINEER / DATE VERIFIED / DATE	TE

BUILDING: INTAKE STRUCTURE	
FIRE ZONE:	
LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE	PIT
POTENTIAL INTERACTION NO.: V-8-136-4	
PHOTOGRAPH NO.: M287	
BACKGROUND NO.: 8-80	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: 2"-SWN-65 (White arrow on the bot	ctom center)
SOURCE: CONDUIT (White arrow on the top	right)
DESCRIPTION OF POSTULATED INTERACTION:	
Source falls on target	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 3	
X ACCEPTABLE	POTENTIALLY UNACCEPTABLE
Jorge L. Rodriguez 8/9/82 INTERACTION ENGINEER/DATE	W A Griswold 9/9/82 VERIFIED/DATE

BUILDING: INTAKE STRUCTURE		
FIRE ZONE:		
LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE	PIT	
POTENTIAL INTERACTION NO.: V-8-136-6		
PHOTOGRAPH NO.: M287		•
BACKGROUND NO.: 8-80		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: 2"-SWN-65 (White arrow on the bot	tom center)	
SOURCE: LIGHT FIXTURE (White arrow on th	e top left)	
DECODERATOR OF DOCUMENTS INTERACTION.	•	
DESCRIPTION OF POSTULATED INTERACTION:	<i>;</i>	
Source falls on target		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 3	•	
X ACCEPTABLE		POTENTIALLY
ACCEPTABLE		UNACCEPTABLE
Jorge L. Rodriguez 8/9/82	W A Griswold 9/9/82	
INTERACTION ENGINEER /DATE	TEPTETED/DA	ਧਾਸ

System	No.	8
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INTERACTION ENGINEER / DATE	VERIFIED/DA	ATE
Jorge L. Rodriguez 8/9/82	W A Griswold 9/9/82	
X ACCEPTABLE		POTENTIALLYUNACCEPTABLE
EVALUATION NOTE NO: 3		
EVALUATION OF INTERACTION:		
Source falls on target		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: 8"-SCREENWASH HEADER (Black arro	w on the top center)	
TARGET: 14"-SWN-2 (White arrow on the bo	ttom center)	
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: 8-80	•	,
PHOTOGRAPH NO.: M283		
POTENTIAL INTERACTION NO.: V-8-137-2		
LOCATION WITHIN FIRE ZCNE: SERVICE WATER VALV	E PIT	
FIRE ZONE:		
BUILDING: INTAKE STRUCTURE		

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BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-137-4

PHOTOGRAPH NO.: M285

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 14"-SWN-2 (not shown)

SOURCE: CONDUIT (white arrow on the top conduit connected to light is not

shown)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION: 3

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

Jorge L. Rodriguez 8/9/82

INTERACTION ENGINEER / DATE

W A Griswold 9/9/82

VERIFIED/DATE

Jorge L. Rodriguez 8/9/82 INTERACTION ENGINEER/DATE	W A Griswold 9/9/82 VERIFIED/DATE	_
X ACCEPTABLE	POTENTIALLYUNACCEPTABL	
EVALUATION NOTE NO: 3		
EVALUATION OF INTERACTION:	•	
Source falls on target.	,	
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: LIGHT FIXTURE (white arrow on the	ne top)	
SOURCE: LICHT FIXTURE (bi-	h - 4 \	
TARGET: 14"-SWN-2 (not shown)		
IDENTIFICATION OF INTERACTION COMPONENTS:	·	
BACKGROUND NO.: 8-80		
PHOTOGRAPH NO.: M285	•	
POTENTIAL INTERACTION NO.: V-8-137-5		
LOCATION WITHIN FIRE ZONE: SERVICE WATER VALV	YE PIT	
FIRE ZONE:		
BUILDING: INTAKE STRUCTURE		

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System	No.	8	
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BUILDING:

INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-138-2

PHOTOGRAPH NO.: M283

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 14"-STRAINER #34 (Black arrow on the center left)

SOURCE: 8"-SCREENWASH HEADER (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

Jorge L. Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82 VERIFIED/DATE

Ebasco Services Incorporated

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BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-138-4

PHOTOGRAPH NO.: M285

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 14"-STRAINER #34 (not shown)

SOURCE: CONDUIT (white arrow on the top conduit connected to light is not

shown)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

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POTENTIALLY
-UNACCEPTABLE

Jorge L. Rodriguez 8/9/82

INTERACTION ENGINEER / DATE

W A Griswold 9/9/82

VERIFIED/DATE

System	No.	·8	

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-138-5

PHOTOGRAPH NO.: M285

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 14"-STRAINER #34 (not shown)

SOURCE: LIGHT FIXTURE (white arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
-UNACCEPTABLE

Jorge L. Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

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BUILDING: INTAKE STRUCTURE	
FIRE ZONE:	
LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT	•
POTENTIAL INTERACTION NO.: V-8-139-2	
PHOTOGRAPH NO.: M283	
BACKGROUND NO.: 8-80	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: 14"-SWN-1 (not shown)	
SOURCE: 8"-SCREENWASH HEADER (black arrow on the top center)	
DESCRIPTION OF POSTULATED INTERACTION:	
Source falls on target	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 3	
X ACCEMPTIABLE .	POTENTIALLY UNACCEPTABLE
Jorge L. Rodriguez 8/9/82 W A Griswold 9/9/82	

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VERIFIED/DATE

BUILDING: INTAKE STR	OCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-140-1

PHOTOGRAPH NO.: M280

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 14"-SWN-2 (black arrow on the center)

SOURCE: TEMPORARY SPACE HEATER (white arrow 2nd from the bottom right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

Jorge L. Rodriguez 8/9/82

UNACCEPTABLE

W A Grisw old 9/9/82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-140-2

PHOTOGRAPH NO.: M283

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 14"-SWN-2 (not shown)

SOURCE: 8"-SCREENWASH HEADER . (black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

Jorge L. Rodriguez 8/9/82

INTERACTION ENGINEER / DATE

W A Griswold 9/9/82

VERIFIED/DATE

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-140-3

PHOTOGRAPH NO.: M284

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 14"-SWN-2 (not shown)

SOURCE: LIGHT FIXTURE (white arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

Jorge L. Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W.A. Griswold 9/9/82

VERIFIED/DATE

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-141-1

PHOTOGRAPH NO.: M280

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 14"-STRAINER #35 (white arrow on the top center)

SOURCE: TEMPORARY SPACE HEATER (white arrow 2nd from the bottom right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

Jorge L. Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-141-2

PHOTOGRAPH NO.: M283

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 14"-STRAINER #35 (black arrow on the center right)

SOURCE: 8"-SCREENWASH HEADER (black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
---UNACCEPTABLE

Jorge L. Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82 VERIFIED/DATE

INTERACTION ENGINEER / DATE	VE	RIFIED/DA	TE
Jorge L. Rodriguez 8/9/82	W A Griswold		
X ACCEPTABLE			POTENTIALLY —UNACCEPTABLE
EVALUATION NOTE NO: 3			
EVALUATION OF INTERACTION:			
· ·			
Source falls on target			
DESCRIPTION OF POSTULATED INTERACTION:			
SOURCE: LIGHT FIXTURE (white arrow on the	ne top center)		
TARGET: 14"-STRAINER #35 (not shown)			
IDENTIFICATION OF INTERACTION COMPONENTS:			
,			
BACKGROUND NO.: 8-80			
PHOTOGRAPH NO.: M284			
POTENTIAL INTERACTION NO.: V-8-141-3			•
LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE	E PIT		
FIRE ZONE:			
BUILDING: INTAKE STRUCTURE			

BUILDING: INTAKE STRUCTURE		
FIRE ZONE:		
LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE	E PIT	
POTENTIAL INTERACTION NO.: V-8-142-2		
PHOTOGRAPH NO.: M283		
BACKGROUND NO.: 8-80		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: 14"-SWN-1 (white arrow on the b	ottom center)	
SOURCE: 8"-SCREENWASH HEADER (black arr	ow on the top center)	
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 3	·	
X ACCEPTABLE .		POTENTIALLY
Jorge L. Rodriguez 8/9/82	W A Griswold 9/9/82	
INTERACTION ENGINEER/DATE	VERIFIED/DA	ATE

INTERACTION ENGINEER / DATE	VERIFIED/DA	TE
·	W A Griswold 9/9/82	
X ACCEPTABLE	·	POTENTIALLY -UNACCEPTABLI
EVALUATION NOTE NO: 3		
EVALUATION OF INTERACTION:		·
Source falls on target		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: 8"-SCREENWASH HEADER (black arrow	on the top right)	
TARGET: 14"-SWN-2 (not shown)		
IDENTIFICATION OF INTERACTION COMPONENTS:		
	•	
BACKGROUND NO.: 8-80		
PHOTOGRAPH NO.: M286		•
POTENTIAL INTERACTION NO.: V-8-143-1		
LOCATION WITHIN FIRE ZCNE: SERVICE WATER VALVE	PIT	
FIRE ZONE:		
BUILDING: INTAKE STRUCTURE		

Ebasco Services Incorporated

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-143-2

PHOTOGRAPH NO.: M284

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 14"-SWN-2 (not shown)

SOURCE: LIGHT FIXTURE (white arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

Jorge L. Rodriguez 8/9/82

UNACCEPTABLE

WA Griswold 9/9/82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

POTENTIALLY

-UNACCEPTABLE

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POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-144-1

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 14"-STRAINER #36 (not shown)

SOURCE: 8"-SCREENWASH HEADER (black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE ____

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Jorge L. Rodriguez 8/9/82

INTERACTION ENGINEER / DATE VERIFIED / DATE

Ebasco Services Incorporated

W A Griswold 9/9/82

BUILDING:	INTAKE	STRUCTURE
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FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-144-2

PHOTOGRAPH NO.: M284

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 14"-STRAINER #36 (not shown)

SOURCE: LIGHT FIXTURE (white arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3 '

Jorge L. Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

POTENTIALLY
UNACCEPTABLE

W A Griswold 9/9/82

VERIFIED/DATE

System	No	8	
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Sheet 356. o	f521
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BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-145-1

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 14"-SWN-1 (not shown)

SOURCE: 8"-SCREENWASH HEADER (black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE	
Jorge L. Rodriguez 8/9/82	W A Griswold 9/9/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

BUILDING: INTAKE STRUCTURE
FIRE ZONE:
LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT
POTENTIAL INTERACTION NO.: V-8-146-1
PHOTOGRAPH NO.: M283
BACKGROUND NO.: 8-80
·
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: 2"-SWN-PCV-1208 (not shown)
SOURCE: 8"-SCREENWASH HEADER (black arrow on the top center)
DESCRIPTION OF POSTULATED INTERACTION:
Source falls on target
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 5
Source has adequate mass to damage target. Further evaluation required.
ACCEPTABLE POTENTIALLY X UNACCEPTABLE
Jorge L. Rodriguez 8/9/82 W A Griswold 9/9/82
INTERACTION ENGINEER/DATE VERIFIED/DATE

BUILDING: INTAKE STRUCTURE
FIRE ZONE:
LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT
POTENTIAL INTERACTION NO.: V-8-147-1
PHOTOGRAPH NO.: M283
BACKGROUND NO.: 8-80
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: 2"-SWN-64 (not shown)
SOURCE: 8"-SCREENWASH HEADER (black arrow on the top center)
DESCRIPTION OF DOCUMENT AND INTERNACIONAL
DESCRIPTION OF POSTULATED INTERACTION:
Source falls on target.
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 5
Source has adequate mass to damage target. Further evaluation required.
ACCEPTABLE POTENTIALLY X UNACCEPTABL
Jorge L. Rodriguez 8/9/82 W A Griswold 9/9/82
INTERACTION ENGINEER/DATE VERIFIED/DATE

BUILDING: INTAKE STRUCTURE
FIRE ZONE:
LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT
POTENTIAL INTERACTION NO.: V-8-148-1
PHOTOGRAPH NO.: M283
BACKGROUND NO.: 8-80
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: 2"-SWN-65 (white arrow on the center left)
SOURCE: 8"-SCREENWASH HEADER (black arrow on the top center)
DESCRIPTION OF POSTULATED INTERACTION:
Source falls on target.
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 5
Source has adequate mass to damage target. Further evaluation required.
ACCEPTABLEX POTENTIALLY
Jorge L. Rodriguez 8/9/82 W A Grisweld 9/9/82 INTERACTION ENGINEER/DATE VERIFIED/DATE
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INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: INTAKE STRUCTURE
FIRE ZONE:
LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT
POTENTIAL INTERACTION NO.: V-8-148-3
PHOTOGRAPH NO.: M285
BACKGROUND NO.: 8-80
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: 2"-SWN-65 (white arrow on the center right)
SOURCE: CONDUIT (white arrow on the top conduit connected to light is not shown)
DESCRIPTION OF POSTULATED INTERACTION:
Source falls on target.
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 3
X ACCEPTABLE POTENTIALLY UNACCEPTABLE
Jorge L. Rodriguez 8/9/82 W A Griswold 9/9/82

Ebasco Services Incorporated

VERIFIED/DATE

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-148-4

PHOTOGRAPH NO.: M285

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-65 (white arrow on the center right)

SOURCE: LIGHT FIXTURE (white arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

Jorge L. Rodriguez 8/9/82

WA Griswold 9/9/82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

System No. System No.	8
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BUILDING: INTAKE STRUCTURE	
FIRE ZONE:	
LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE P	IT
POTENTIAL INTERACTION NO.: V-8-149-1	
PHOTOGRAPH NO.: M283	•
BACKGROUND NO.: 8-80	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: 2"-SWN-PCV-1209 (not shown)	
SOURCE: 8"-SCREENWASH HEADER (black arrow or	n the top center)
DESCRIPTION OF POSTULATED INTERACTION:	
Source falls on target.	
EVALUATION OF INTERACTION:	,
EVALUATION NOTE NO: 5	
Source has adequate mass to damage target. Furth	ner evaluation required.
ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
Jorge L. Rodriguez 8/9/82	A Griswold 9/9/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

BUILDING: INTAKE STRUCTURÉ
FIRE ZONE:
LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT
POTENTIAL INTERACTION NO.: V-8-150-1
PHOTOGRAPH NO.: M283
BACKGROUND NO.: 8-80
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: 2"-SWN-64 (not shown)
SOURCE: 8"-SCREENWASH HEADER (black arrow on the top center)
DESCRIPTION OF POSTULATED INTERACTION:
Source falls on target.
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 5
Source has adequate more to demand to the source of the so
Source has adequate mass to damage target. Further evaluation required.
ACCEPTABLE X POTENTIALLY UNACCEPTABLE
Inner I. Dadwinson, 9/0/99
Jorge L. Rodriguez 8/9/82 W A Griswold 9/9/82 INTERACTION ENGINEER/DATE VERIFIED/DATE

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BUILDING: INTAKE STRUCTURE			
FIRE ZONE:			
LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE	PIT		
POTENTIAL INTERACTION NO.: V-8-152-1			•
PHOTOGRAPH NO.: M286		·	
BACKGROUND NO.: 8-80			
IDENTIFICATION OF INTERACTION COMPONENTS:			
TARGET: 2"-SWN-PCV-1210 (not shown)			
		•	
SOURCE: 8"-SCREENWASH HEADER (black arrow	on the top r	ight)	
DESCRIPTION OF POSTULATED INTERACTION:			
Source falls on target.			
EVALUATION OF INTERACTION:			
EVALUATION NOTE NO: 5			
Source has adequate mass to damage target. Furt	ther evaluation	on requir	ed.
ACCEPTABLE		X	POTENTIALLY —UNACCEPTABLI
Jorge L. Rodriguez 8/9/82	W A Griswøld	0/0/02	
INTERACTION ENGINEER / DATE		RIFIED/DA	 ነጥፑ
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BUILDING: INTAKE STRUCTURE		
FIRE ZONE:		
LOCATION WITHIN FIRE ZONE: SERVICE WATER VAL	VE PIT	
POTENTIAL INTERACTION NO.: V-8-153-1		
PHOTOGRAPH NO.: M286		
BACKGROUND NO.: 8-80		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: 2"-SWN-64 (not shown)		
SOURCE: 8"-SCREENWASH HEADER (black ar	row on the top right)	
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target.		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 5		
Source has adequate mass to damage target. I	Further evaluation requi	red.
		POTENTIALLY
ACCEPTABLE	X	UNACCEPTABLE
Jorge L. Rodriguez 8/9/82	W A Griswold 9/9/82	
INTERACTION ENGINEER/DATE	VERIFIED/D	ATE
	•	

BUILDING: INTAKE STRUCTURE
FIRE ZONE:
LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT
POTENTIAL INTERACTION NO.: V-8-154-1
PHOTOGRAPH NO.: M286
BACKGROUND NO.: 8-80
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: 2"-SWN-65 (not shown)
SOURCE: 8"-SCREENWASH HEADER (black arrow on the top center)
DESCRIPTION OF POSTULATED INTERACTION:
Source falls on target.
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 5
Source has adequate mass to damage target. Further evaluation required.
ACCEPTABLE X POTENTIALLY UNACCEPTABLE
Jorge L. Rodriguez 8/9/82 W A Griswold 9/9/82
INTERACTION ENGINEER/DATE VERIFIED/DATE

BUILDING: INTAKE STRUCTURE			
FIRE ZONE:			
LOCATION WITHIN FIRE ZCNE: SERVICE WATER VALVE	PIT		
POTENTIAL INTERACTION NO.: V-8-155-1			
PHOTOGRAPH NO.: M286			
BACKGROUND NO.: 8-80			
IDENTIFICATION OF INTERACTION COMPONENTS:			
TARGET: 3"-SWN-9 (not shown)			
SOURCE: 8"-SCREENWASH HEADER (black arrow	on the top ri	ght)	
DESCRIPTION OF POSTULATED INTERACTION:		٠.	
Source falls on target.			
EVALUATION OF INTERACTION:			
EVALUATION NOTE NO: 5			
Source has adequate mass to damage target. Furt	her evaluation	n require	d.
ACCEPTABLE		X	POTENTIALLY -UNACCEPTABLE
Jorge L. Rodriguez 8/9/82	W A Griswold	9/9/82	
INTERACTION ENGINEER / DATE	VE	RTETED/DAT	TE.

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BUILDING: INTAKE STRUCTURE
FIRE ZONE:
LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT
POTENTIAL INTERACTION NO.: V-8-156-1
PHOTOGRAPH NO.: M286
BACKGROUND NO.: 8-80
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IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: ½"-SWN-58 (not shown)
SOURCE: 8"-SCREENWASH HEADER (black arrow on the top right)
DESCRIPTION OF POSTULATED INTERACTION:
Source falls on target.
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 5
Source has adequate mass to damage target. Further evaluation required.
ACCEPTABLE POTENTIALLY X UNACCEPTABLE
Jorge L. Rodriguez 8/9/82 W A Grisweld 9/9/82
INTERACTION ENGINEER/DATE VERIFIED/DATE

System	No.	8	
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BUILDING: INTAKE STRUCTURE
FIRE ZONE:
LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT
POTENTIAL INTERACTION NO.: V-8-157-1
PHOTOGRAPH NO.: M286
BACKGROUND NO.: 8-80
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: 3"-SWN-9 (not shown)
SOURCE: 8"-SCREENWASH HEADER (black arrow on the top right)
DESCRIPTION OF POSTULATED INTERACTION:
Source falls on target.
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 5
Source has adequate mass to damage target. Further evaluation required.
ACCEPTABLE X POTENTIALLY UNACCEPTABLE
Jorge L. Rodriguez 8/9/82 W A Griswold 9/9/82
INTERACTION ENGINEER/DATE VERIFIED/DATE

System	No.	8	

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BUILDING: INTAKE STRUCTURE			
FIRE ZONE:			
LOCATION WITHIN FIRE ZONE: SERVICE WATER VALV	E PIT		
POTENTIAL INTERACTION NO.: V-8-158-1			
PHOTOGRAPH NO.: M286			
BACKGROUND NO.: 8-80			
IDENTIFICATION OF INTERACTION COMPONENTS:			
TARGET: ½"-SWN-58 (not sho	own)		
		•	
SOURCE: 8"-SCREENWASH			
DESCRIPTION OF POSTULATED INTERACTION:		•	
Source falls on target.			
EVALUATION OF INTERACTION:			
EVALUATION NOTE NO: 5			·
Source has adequate mass to damage target. Fu	rther evaluation	n require	ad.
· ·	evaluation	. require	
ACCEPTABLE		X	POTENTIALLYUNACCEPTABL
Jorge L. Rodriguez 8/9/82	W A Griswold	9/9/82	
INTERACTION ENGINEER / DATE	VER	IFIED/DA	TE

BUILDING: INTAKE STRUCTURE			
FIRE ZONE:			
LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE	PIT		
POTENTIAL INTERACTION NO.: V-8-159-1			
PHOTOGRAPH NO.: M286			
BACKGROUND NO.: 8-80			
IDENTIFICATION OF INTERACTION COMPONENTS:			
TARGET: 3"-SWN-9 (white arrow on the cen	ter)		
SOURCE: 8"-SCREENWASH HEADER (black arrow	on the top r	ight)	
DESCRIPTION OF POSTULATED INTERACTION:			
Source falls on target.			
EVALUATION OF INTERACTION:			·
EVALUATION NOTE NO: 5	•		
Source has adequate mass to damage target. Furt	ther evaluatio	on require	ed.
ACCEPTABLE		X	POTENTIALLY —UNACCEPTABLE
Jorge L. Rodriguez 8/9/82	W A Grisweld	9/9/82	
INTERACTION ENGINEER/DATE	VE	RIFIED/DA	TE

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-159-2

PHOTOGRAPH NO.: M289

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-9 (black arrow on the top right)

SOURCE: Elec. Box (black arrow on the center left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
-UNACCEPTABLE

Jorge L. Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Grisw@ld 9/9/82 VERIFIED/DATE

System	No.	8	
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INTERACTION ENGINEER / DATE	W A		PIFIFD/DA	mr.
Jorge L. Rodriguez 8/9/82	WA	Griswold	9/9/82	•
ACCEPTABLE .			X	POTENTIALLYUNACCEPTABLE
Source has adequate mass to damage target. Furt	ther	evaluatio	n require	ed.
EVALUATION NOTE NO: 5				
EVALUATION OF INTERACTION:				
Source falls on target.				
DESCRIPTION OF POSTULATED INTERACTION:				
SOURCE: 8"-SCREENWASH HEADER (black arrow	on 1	the top ri	ight)	
TARGET: ½"-SWN-58 (not shown)				
IDENTIFICATION OF INTERACTION COMPONENTS:				
BACKGROUND NO.: 8-80				
PHOTOGRAPH NO.: M286				
POTENTIAL INTERACTION NO.: V-8-160-1				
LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE	PIT			
FIRE ZONE:				
BUILDING: INTAKE STRUCTURE				

Sheet	375	of	521
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System	No.	8	

BUILDING: INTAKE STRUCTURE FIRE ZONE: LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT POTENTIAL INTERACTION NO.: V-8-160-2 PHOTOGRAPH NO.: M289 BACKGROUND NO.: 8-80 IDENTIFICATION OF INTERACTION COMPONENTS: TARGET: ½"-SWN-58 (white arrow on the center) SOURCE: Elec. Box (black arrow on the center left) DESCRIPTION OF POSTULATED INTERACTION: Source falls on target. EVALUATION OF INTERACTION: EVALUATION NOTE NO: 5 Source has adequate mass to damage target. Further evaluation required. POTENTIALLY ACCEPTABLE -UNACCEPTABLE Jorge L. Rodriguez 8/9/82 W A Griswold 9/9/82 INTERACTION ENGINEER / DATE VERIFIED/DATE

BUILDING: INTAKE STRUCTURE		
FIRE ZONE:		
LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE	E PIT	
POTENTIAL INTERACTION NO.: V-8-161-1		
PHOTOGRAPH NO.: M286		
BACKGROUND NO.: 8-80		
		,
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: 3"-SWN-9 (white arrow on the botto	om right)	
SOURCE: 8"-SCREENWASH HEADER (black arrow	on the top right)	
DECEMBER OF DOCUMENT AND THE PARTY.		
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target.	•	
EVALUATION OF INTERACTION:	·	
EVALUATION NOTE NO: 5		
Source has adequate mass to damage target. Fu	rther evaluation requir	rod
The state of the s	rener evaluation redui	
ACCEPTABLE	X	POTENTIALLYUNACCEPTABLE
Jorge L. Rodriguez 8/9/82	T. A. Oudanad 1 1 0/0/00	
INTERACTION ENGINEER / DATE	W A Griswold 9/9/82	mr.

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-162-1

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: ½"-SWN-58 (not shown)

SOURCE: 8"-SCREENWASH HEADER (black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

Jorge L. Rodriguez 8/9/82 NTERACTION ENGINEER / DATE

W A Griswold 9/9/82 VERIFIED/DATE

Jorge L. Rodriguez 8/9/82

INTERACTION ENGINEER / DATE

-UNACCEPTABLE

W A Griswold 9/9/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: INTAKE STRUCTURE		
FIRE ZONE:		
LOCATION WITHIN FIRE ZCNE: SERVICE WATER VALVE PIT		
POTENTIAL INTERACTION NO.: V-8-163-1		
PHOTOGRAPH NO.: M286		
BACKGROUND NO.: 8-80		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: 3"-SWN-9 (not shown)		
SOURCE: 8"-SCREENWASH HEADER (black arrow on the top right)		
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target.		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 5		
Source has adequate mass to damage target. Further evaluation required	d.	
ACCEPTABLE	X	POTENTIALLY

BUILDING: INTAKE STRUCTURE		
FIRE ZONE:		
LOCATION WITHIN FIRE ZCNE: SERVICE WATER VALVE F	PIT	
POTENTIAL INTERACTION NO.: V-8-164-1		
PHOTOGRAPH NO.: M286		
BACKGROUND NO.: 8-80		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: ½"-SWN-58 (not shown)		
SOURCE: 8"-SCREENWASH HEADER (black arrow on	the top right)	•
DESCRIPTION OF POSTULATED INTERACTION:	·	
Source falls on target.		·
EVALUATION OF INTERACTION: EVALUATION NOTE NO: 5		
Source has adequate mass to damage target. Furth	er evaluation required.	
ACCEPTABLE	X	POTENTIALLYUNACCEPTABLE
Jorge L. Rodriguez 8/9/82	W A Griswold 9/9/82	
NTERACTION ENGINEER / DATE	VERIFIED/D	ATE

BUILDING:

INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-165-1

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-9 (not shown)

SOURCE: 8"-SCREENWASH HEADER (black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

Jorge L. Rodriguez 8/9/82
**NTERACTION ENGINEER/DATE

W A Griswold 9/9/82 VERIFIED/DATE

BUILDING: INTAKE STRUCTURE
FIRE ZONE:
LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT
POTENTIAL INTERACTION NO.: V-8-166-1
PHOTOGRAPH NO.: M286
BACKGROUND NO.: 8-80
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: ½"-SWN-58 (not shown)
SOURCE: 8"-SCREENWASH HEADER (black arrow on the top right)
DESCRIPTION OF POSTULATED INTERACTION:
Source falls on target.
EVALUATION OF INTERACTION: EVALUATION NOTE NO: 5
Source has adequate mass to damage target. Further evaluation required.
ACCEPTABLE X POTENTIALLY UNACCEPTABLE
Jorge L. Rodriguez 8/9/82 INTERACTION ENGINEER/DATE WA Griswold 9/9/82 VERIFIED/DATE

BUILDING: INTAKE STRUCTURE	
FIRE ZONE: 22	
LOCATION WITHIN FIRE ZONE:	
POTENTIAL INTERACTION NO.: V-8-167-1	
PHOTOGRAPH NO.: M294	
BACKGROUND NO.: 8-80	
·	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: WTR PUMP #31 (White arrow on the top)	
SOURCE: DRAIN HEADER #1 (Black arrow on the top right)	
DESCRIPTION OF POSTULATED INTERACTION:	
Source falls and damages target.	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 5	
Source falls into pump pit and may be drawn in by the pump suction, evaluation required.	Further
ACCEPTARI E	POTENTIALLY
	UNACCEPTABLE
Jorge L. Rodriguez 8/9/82 W A Griswold	9/9/82
Jorge L. Rodriguez 8/9/82 W A Griswold INTERACTION ENGINEER/DATE VERIFIED/DAT	E

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-167-2

PHOTOGRAPH NO.: M295

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #31 (Not Shown)

SOURCE: DRAIN HEADER #2 (White arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction. Further evaluation required.

ACCEPTABLE X POTENTIALLY UNACCEPTABLE

Jorge L. Rodriguez 8/9/82 INTERACTION ENGINEER/DATE

W A Griswold

9/9/82

VERIFIED/DATE

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-167-3

PHOTOGRAPH NO.: M296

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #31 (not shown)

SOURCE: DRAIN HEADER #3 (white arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction. Further evaluation required.

__ACCEPTABLE

Jorge L. Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Grisw Old 9/9/82

VERIFIED/DATE

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-167-4

PHOTOGRAPH NO.: M297

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #31 (not shown)

SOURCE: DRAIN HEADER #4 (white arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

Source falls into pump pit and may be drawn in by the pump suction. Further evaluation required.

ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

BUILDING: INTAKE STRUCTURE	,	
FIRE ZONE: 22		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: V-8-167-5		
PHOTOGRAPH NO.: M298		
BACKGROUND NO.: 8-80		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: WTR PUMP #31 (Not Shown)		
SOURCE: DRAIN HEADER #5 (Black arrow on t	the bottom right)	
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls and damages target.		
DIVIDAGE OF THE PROPERTY OF		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 5		
Source falls into pump pit and may be drawn Further evaluation required	in by the pump suction	on.
ACCEPTABLE	X	POTENTIALLY —UNACCEPTABLI
-		
Jorge L Rodriguez 8/9/82	W A Griswold 9/9/82	
INTERACTION ENGINEER / DATE	VERTFIED/D	ATE

System No.	8
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BUILDING: INTAKE STRUCTURE
FIRE ZONE: 22
LOCATION WITHIN FIRE ZCNE:
POTENTIAL INTERACTION NO.: V-8-167-6
PHOTOGRAPH NO.: M299
BACKGROUND NO.: 8-80
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: WTR PUMP #31 (Not Shown)
SOURCE: DRAIN HEADER #6 (Black arrow on the top left)
DESCRIPTION OF POSTULATED INTERACTION:
Source falls and damages target
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 5
Source falls into pump pit and may be drawn in by the pump suction. Further evaluation required.
ACCEPTABLE POTENTIALLY UNACCEPTABL
Jorge L Rodriguez 8/9/82 INTERACTION ENGINEER/DATE W A Griswold 9/9/82 VERIFIED/DATE

Sheet	388	of	521

System	No.	8
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INTERACTION ENGINEER/DATE		FIED/DATE
Jorge L Rodriguez 8/9/82	.W A Griswold	9/9/82
ACCEPTABLE	Х	POTENTIALLY UNACCEPTABLE
Source falls into pump pit and may be drawn Further evaluation required.	in by the pump	suction.
EVALUATION NOTE NO: 5		·
EVALUATION OF INTERACTION:		
Source falls and damages target.		
DESCRIPTION OF POSTULATED INTERACTION:		
DECORTEMANY OF DOOMS AMON THEN THE		
SOURCE: DRAIN HEADER #1 (Black arrow on	the top right)	
TARGET: WTR PUMP #32 (Not Shown)	·	
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: 8-80		
PHOTOGRAPH NO.: M294	,	
POTENTIAL INTERACTION NO.: V-8-168-1		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 22		
BUILDING: INTAKE STRUCTURE		

System	No.	-8	
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EVALUATION SHEET	
BUILDING: INTAKE STRUCTURE	
FIRE ZONE: 22	
LOCATION WITHIN FIRE ZONE:	
POTENTIAL INTERACTION NO.: V-8-168-2	
PHOTOGRAPH NO.: M295	
BACKGROUND NO.: 8-80	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: WTR PUMP #32 (Black arrow on the top right)	
SOURCE: DRAIN HEADER #2 (White arrow on the top left)	
DESCRIPTION OF POSTULATED INTERACTION:	
Source falls and damages target.	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 5	
Source falls into pump pit and may be drawn in by the pump suct: Further evaluation required	ion.
ACCEPTABLE X	POTENTIALLY
	UNACCEPTABLI
Jorge L Rodriguez 8/9/82 W A Griswold 9/9/	82
INTERACTION ENGINEER/DATE VERIFIED/	DATE

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BUILDING: INTAKE STRUCTURE		
FIRE ZONE: 22		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: V-8-168-3		
PHOTOGRAPH NO.: M296		
BACKGROUND NO.: 8-80		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: WTR PUMP #32 (Not Shown)		
SOURCE: DRAIN HEADER #3 (White arrow on t	he top)	
DESCRIPTION OF POSTULATED INTERACTION: Source falls and damages target.		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 5		·
Source falls into pump pit and may be drawn Further evaluation required.	n in by the pump	suction.
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
Jorge L Rodriguez 8/9/82 INTERACTION ENGINEER/DATE	W A Griswold VERIF	9/9/82 TIED/DATE

BUILDING: INTAKE STRUCTURE		
FIRE ZONE:22		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: V-8-168-4		
PHOTOGRAPH NO.: M297		
BACKGROUND NO.: 8-80		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: WTR FUMP #32 (Not Shown)		
SOURCE: DRAIN HEADER #4 (White arrow on the	ne top center)	
DESCRIPTION OF POSTULATED INTERACTION: Source falls and damages target.		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 5	,	
Source falls into pump pit and may be drawn Further evaluation required.	n in by the pump	suction.
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
Jorge L Rodriguez 8/9/82 INTERACTION ENGINEER/DATE	W A Griswold	9/9/82 FIED/DATE
INTERACTION ENGINEER/PALE	VERI	r ird/DATE

System No. 8	System	No.	8
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Sheet	392	of	521

Jorge L Rodriguez 8/9/82 INTERACTION ENGINEER/DATE	W A Griswold	9/9/82 FIED/DATE
		UNACCEPTABLE
ACCEPTABLE	X	POTENTIALLY
Source falls into pump pit and may be drawn Further evaluation required.	in by the pump	suction.
EVALUATION NOTE NO: 5		
EVALUATION OF INTERACTION:	,	
Source falls and damages target.		•
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: DRAIN HEADER #5 (Black arrow on th	e bottom right)	
TARGET: WTR PUMP #32 (Not Shown)		
IDENTIFICATION OF INTERACTION COMPONENTS:		
Thermal Composition of Things of the Compositions		
BACKGROUND NO.: 8-80		
PHOTOGRAPH NO.: M298		
POTENTIAL INTERACTION NO.: V-8-168-5	,	
LOCATION WITHIN FIRE ZONE:	•	,
FIRE ZONE: 22		
BUILDING: INTAKE STRUCTURE		

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INTERACTION ENGINEER/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: INTAKE STRUCTURE		
FIRE ZONE: 22		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: V-8-168-6		
PHOTOGRAPH NO.: M299		
BACKGROUND NO.: 8-80		
		·
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: WTR PUMP #32 (Not Shown)		
SOURCE: DRAIN HEADER #6 (Black arrow on the	he top left)	
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls and damages target.		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 5 Source falls into pump pit and may be drawn Further evaluation required.	n in by the pump su	ction.
•		DOTENT ATTS
ACCEPTABLE	X	POTENTIALLYUNACCEPTABLE
Jorge L Rodriguez 8/9/82	W A Griswold 9/	9/82
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EVALUATION SE	EET	
BUILDING: INTAKE STRUCTURE		
FIRE ZONE: 22		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: V-8-169-1		
PHOTOGRAPH NO.: M294		
BACKGROUND NO.: 8-80		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: WTR PUMP #33 (Not Shown)		
SOURCE: DRAIN HEADER #1 (Black arrow on the	ne top right)	
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls and damages target		
EVALUATION OF INTERACTION:		·
EVALUATION NOTE NO: 5		•
Source falls into pump pit and may be drawn	n in by the pump	suction.
Further evaluation required.	,	
ACCEPTABLE	X	POTENTIALLYUNACCEPTABLE
Jorge L Rodriguez 8/9/82	W A Griswold	9/9/82
INTERACTION ENGINEER / DATE	VERI	FIED/DATE
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INTERACTION ENGINEER/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: INTAKE STRUCTURE
FIRE ZONE: 22
LOCATION WITHIN FIRE ZONE:
POTENTIAL INTERACTION NO.: V-8-169-2
PHOTOGRAPH NO.: M295
BACKGROUND NO.: 8-80
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: WTR PUMP #33 (Not Shown)
SOURCE: DRAIN HEADER #2 (White arrow on the top left)
DESCRIPTION OF POSTULATED INTERACTION:
Source falls and damages target.
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 5
Source falls into pump pit and may be drawn in by the pump suction. Further evaluation required.
ACCEPTABLE Y POTENTIALLY UNACCEPTABL
Jorge L Rodriguez 8/9/82 W A Griswold (/9/82

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System	No.	8	
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INTERACTION ENGINEER/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

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BUILDING: INTAKE STRUCTURE		
FIRE ZONE: 22		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: V-8-169-3		
PHOTOGRAPH NO.: M296 8-80		
BACKGROUND NO.: & . 20		•
IDENTIFICATION OF INTERACTION COMPONENTS:	. ,	
TARGET: WTR PUMP #33 (Black arrow on the	he top center)	
SOURCE: DRAIN HEADER #3 (White arrow on the	he top center)	
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls and damages target		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 5		
Source falls into pump pit and may be drawn Further evaluation required	in by the pump suction	•
ACCEPTABLE	Х	POTENTIALLY -UNACCEPTABLE
Jorge L Rodriguez 8/9/82	W A Griswold 9/9/82	

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BUILDING: INTAKE STRUCTURE FIRE ZONE: 22 LOCATION WITHIN FIRE ZONE: POTENTIAL INTERACTION NO.: V-8-169-4 PHOTOGRAPH NO.: M297 BACKGROUND NO.: 8-80 IDENTIFICATION OF INTERACTION COMPONENTS: TARGET: WTR PUMP #33 (Not Shown) SOURCE: DRAIN HEADER #4 (White arrow on the top center) DESCRIPTION OF POSTULATED INTERACTION: Source falls and damages target EVALUATION OF INTERACTION: EVALUATION NOTE NO: 5 Source falls into pump pit and may be drawn in by the pump suction. Further evaluation required. POTENTIALLY ACCEPTABLE -UNACCEPTABLE Jorge L Rodriguez 8/9/82 W A Griswold 9/9/82 INTERACTION ENGINEER / DATE VERIFIED/DATE

INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: INTAKE STRUCTURE		
FIRE ZONE: 22		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: V-8-169-5		
PHOTOGRAPH NO.: M298		
BACKGROUND NO.: 8-80		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: WTR PUMP #33 (Not Shown)		v ·
SOURCE: DRAIN HEADER #5 (Black arrow on	the bottom right)	
DESCRIPTION OF POSTULATED INTERACTION:	· ·	
Source falls and damages target		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 5	•	
Source falls into pump pit and may be draw Further evaluation required.	m in by the pump	suction.
ACCEPTABLE	X	POTENTIALLY UNACCEPTABL
Jorge L Rodriguez 8/9/82	W A Griswold	9/9/82

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INTERACTION ENGINEER/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: INTAKE STRUCTURE		
FIRE ZONE: 22		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: V-8-169-6		
PHOTOGRAPH NO.: M299		
BACKGROUND NO.: 8-80		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: WTR PUMP #33 (Not Shown)	• .	
SOURCE: DRAIN HEADER #6 (Black arrow on t	he top left)	
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls and damages target		
EVALUATION OF INTERACTION:		·
EVALUATION NOTE NO: 5	•	
Source falls into pump pit and may be drawn Further evaluation required.	in by the pump	suction.
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
Jorge L Rodriguez 8/9/82	W A Griswold	9/9/82

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BUILDING: INTAKE STRUCTURE		
FIRE ZONE: 22		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: V-8-170-1		
PHOTOGRAPH NO.: M294		
BACKGROUND NO.: 8-80		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: WTR PUMP #34 (Not Shown)		
SOURCE: DRAIN HEADER #1 (Black arrow on t	he top right)	
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls and damages target		•
EVALUATION OF INTERACTION: EVALUATION NOTE NO: 5	•	
Source falls into pump pit and may be drawn Further evaluation required.	in by the pump	suction.
ACCEPTABLE	<u>X</u>	POTENTIALLY UNACCEPTABLĘ
Jorge L Rodriguez 8/9/82	W A Griswold	9/9/82
INTERACTION ENGINEER/DATE	VER	IFIED/DATE

BUILDING: INTAKE STRUCTURE		
FIRE ZONE: 22		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: V-8-170-2		
PHOTOGRAPH NO.: M295		
BACKGROUND NO.: 8-80		
•	•	
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: WTR PUMP #34 (Not Shown)		
SOURCE: DRAIN HEADER #2 (White arrow-	w on the top left)	
DESCRIPTION OF POSTULATED INTERACTION: Source falls and damages target		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 5		
Source falls into pump pit and may be dra Further evaluation required	awn in by the pump suct	cion.
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
Jorge L Rodriguez 8/9/82	W A Griswold 9/	9/82
INTERACTION ENGINEER / DATE	VERIFIE	

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INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

EVALUATION S	HEET	
•	,	
BUILDING: INTAKE STRUCTURE		
FIRE ZONE: 22		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: V-8-170-3		
PHOTOGRAPH NO.: M296		
BACKGROUND NO.: 8-80		
	,	
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: WTR PUMP #34 (Not Shown)		
SOURCE: DRAIN HEADER #3 (White arrow on	the top left)	
DESCRIPTION OF POSTULATED INTERACTION:	•	
Source falls and damages target.		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 5		
Source falls into pump pit and may be drawn Further evaluation required.	in by the pump suction.	
ACCEPTABLE	X	POTENTIALLY -UNACCEPTABL
Jorge L Rodriguez 8/9/82	W A Griswold 9/9/8	

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BUILDING: INTAKE STRUCTURE		
FIRE ZONE: 22		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: V-8-170-4		
PHOTOGRAPH NO.: M297		
BACKGROUND NO.: 8-80		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: WTR PUMP #34 (Black arrow on the ce	nter right)	
SOURCE: DRAIN HEADER #4 (White arrow on the	top center)	
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls and damages target		
EVALUATION OF INTERACTION:		· ·
EVALUATION NOTE NO: 5		·
Source falls into pump pit and may be drawn in by Further evaluation required.	the pump su	uction.
ACCEPTABLE	х	POTENTIALLY UNACCEPTABL
Jorge L Rodriguez 8/9/82 W A	A Griswold	9/9/82
INTERACTION ENGINEER/DATE	VERIF	FIED/DATE
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INTERACTION ENGINEER / DATE	VERIFIED/DA	ATE
Jorge L Rodriguez 8/9/82	W A Griswold 9/9/8	2
ACCEPTABLE	X	-UNACCEPTABLE
Further evaluation required.		POTENTIALLY
Source falls into pump pit and may be drawn	in by the pump suction.	
EVALUATION NOTE NO: 5		
EVALUATION OF INTERACTION:		
Source falls and damages target.		,
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: DRAIN HEADER #5 (Black arrow or	n the top right).	
TARGET: WTR PUMP #34 (Not shown)		
IDENTIFICATION OF INTERACTION COMPONENTS:		
	,	•
BACKGROUND NO.: 8-80		
PHOTOGRAPH NO.: M298		
POTENTIAL INTERACTION NO.: V-8-170-5		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 22		
BUILDING: INTAKE STRUCTURE		

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INTERACTION ENGINEER / DATE	VERIFI	ED/DATE
Jorge L Rodriguez 8/9/82	W A Griswold	9/9/82
ACCEPTABLE	<u>X</u>	POTENTIALLY UNACCEPTABLE
EVALUATION NOTE NO: 5 Source falls into pump pit and may be drawn Further evaluation required.	in by the pump suc	tion.
EVALUATION OF INTERACTION:		
Source falls and damages target.		
DESCRIPTION OF POSTULATED INTERACTION:	·	
SOURCE: DRAIN HEADER #6 (Black arrow or	n the top right)	
TARGET: WTR PUMP #34 (Not Shown)		
IDENTIFICATION OF INTERACTION COMPONENTS:		
`		
BACKGROUND NO.: 8-80		
PHOTOGRAPH NO.: M299		
POTENTIAL INTERACTION NO.: V-8-170-6		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 22		
BUILDING: INTAKE STRUCTURE		
	•	

BUILDING: INTAKE STRUCTURE		
FIRE ZONE: 22		
LOCATION WITHIN FIRE ZCNE:		-
POTENTIAL INTERACTION NO.: V-8-171-1	1	
PHOTOGRAPH NO.: M294	,	
BACKGROUND NO.: 8-80		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: WTR PUMP #35 (Not Shown)		
SOURCE: DRAIN HEADER #1 (Black arrow on	the top right)	
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls and damages target.		
PUALUAGION OF THEPPACETON.		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 5		
Source falls into pump pit and may be drawn Further evaluation required.	in by the pump suction.	
ACCEPTABLE	X	POTENTIALLYUNACCEPTABL
Jorge L Rodriguez 8/9/82	W A Griswo.ld 9/9/82	
INTERACTION ENGINEER /DATE	VEDITED/DA	

INTERACTION ENGINEER/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: INTAKE STRUCTURE
FIRE ZONE: 22
LOCATION WITHIN FIRE ZONE:
POTENTIAL INTERACTION NO.: V-8-171-2
PHOTOGRAPH NO.: M295
BACKGROUND NO.: 8-80
en e
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: WTR PUMP #35 (Not Shown)
SOURCE: DRAIN HEADER #2 (White arrow on the top right)
DESCRIPTION OF POSTULATED INTERACTION:
Source falls and damages target.
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 5 Source falls into pump pit and may be drawn in by the pump suction. Further evaluation required.
ACCEPTABLE X POTENTIALLY UNACCEPTABLE
Jorge L Rodriguez 8/9/82 W A Griswold 9/9/82

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BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-171-3

PHOTOGRAPH NO.: M296

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #35 (Not Shown)

SOURCE: DRAIN HEADER #3 (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction. Further evaluation required.

ACCEPTABLE

X

POTENTIALLY
-UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82 VERIFIED/DATE

INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

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BUILDING: INTAKE STRUCTURE		
FIRE ZONE: 22		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: V-8-171-4		
PHOTOGRAPH NO.: M297		
BACKGROUND NO.: 8-80		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: WTR PUMP #35 (Not Shown)		
SOURCE: DRAIN HEADER #4 (White arrow on t	he top center)	,
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls and damages target.		
Source fails and damages target.		
EVALUATION OF INTERACTION:	٠	
EVALUATION NOTE NO: 5 Source falls into pump pit and may be drawn in 1 Further evaluation required.	by the pump suction.	
ACCEPTABLE	X	POTENTIALLYUNACCEPTABLE
Johns T. Daduddin and O. 10.100		
Jorge L Rodriguez 8/9/82	W A Griswold 9/9/82	

Ebasco Services Incorporated

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BUILDING: INTAKE STRUCTURE		
FIRE ZONE: 22		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: V-8-171-5		·
PHOTOGRAPH NO.: M298		
BACKGROUND NO.: 8-80		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: WTR PUMP #35 (Black arrow on t	he top right)	
SOURCE: DRAIN HEADER #5 (Black arrow on t	he bottom right)	
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls and damages target.		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 5		
Source falls into pump pit and may be drawn in Further evaluation required.	by the pump suction.	
ACCEPTABLE	X	POTENTIALLY
Jorge L Rodriguez 8/9/82	W A Griswold 9/9/8	2
INTERACTION ENGINEER / DATE	VERIFIED/I	

INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: INTAKE STRUCTURE	
FIRE ZONE: 22	
LOCATION WITHIN FIRE ZONE:	
POTENTIAL INTERACTION NO.: V-8-171-6	
PHOTOGRAPH NO.: M299	
BACKGROUND NO.: 8-80	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: WTR PUMP #35 (Not shown)	
SOURCE: DRAIN HEADER #6 (Black arrow on the top left)	
DESCRIPTION OF POSTULATED INTERACTION:	
Source falls and damages target.	
EVALUATION OF INTERACTION:	•
EVALUATION NOTE NO: 5	
Source falls into pump pit and may be drawn in by the pump suction. Further evaluation required.	•
ACCEPTABLE X	POTENTIALLYUNACCEPTABL
Jorge L Rodriguez 8/9/82 W A Griswold 9/9/82	

Ebasco Services Incorporated

INTERACTION ENGINEER / DATE	VERI	FIED/DATE
Jorge L Rodriguez 8/9/82	W A Griswold	9/9/82
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
Source falls into pump pit and may be drawn in Further evaluation required.	the pump sucti	on.
EVALUATION NOTE NO: 5		
EVALUATION OF INTERACTION:		
Source falls and damages target.		
DESCRIPTION OF POSTULATED INTERACTION:		
	•	
SOURCE: DRAIN HEADER #1 (Black arrow on	the top right)	
TARGET: WTR PUMP #36 (Not Shown)		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: 8-80		
PHOTOGRAPH NO.: M294		
POTENTIAL INTERACTION NO.: V-8-172-1		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 22		
BUILDING: INTAKE STRUCTURE		

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System	No.	·8	

BUILDING: INTAKE STRUCTURE			
FIRE ZONE: 22			
LOCATION WITHIN FIRE ZONE:			
POTENTIAL INTERACTION NO.: V-8-	172-2		
PHOTOGRAPH NO.: M295			
BACKGROUND NO.: 8-80			
		•	
IDENTIFICATION OF INTERACTION CO	OMPONENTS:		
TARGET: WTR PUMP #36 ((Not Shown)		
SOURCE: DRAIN HEADER #2 (•	the top left)	,
	ı		
DESCRIPTION OF POSTULATED INTERA Source falls and damages target			·
bource ruris and damages carget	· •		
EVALUATION OF INTERACTION:			
EVALUATION NOTE NO: 5			
Source falls into pump pit and	mav be drawn ir	by the pump suction.	,
Further evaluation required.	•	o, me part terms	
ACCEPTABLE		X	POTENTIALLYUNACCEPTABLE
Jorge L Rodriguez 8/9/82		W A Griswold 9/9/8	
INTERACTION ENGINEER/DATE		VERIFIED/D	ATE

INTERACTION ENGINEER/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: INTAKE STRUCTURE	
FIRE ZONE: 22	
LOCATION WITHIN FIRE ZONE:	
POTENTIAL INTERACTION NO.: V-8-172-3	
PHOTOGRAPH NO.: M296	
BACKGROUND NO.: 8-80	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: WTR PUMP #36 (Not Shown)	
SOURCE: DRAIN HEADER #3 (White arrow on the top center)	
DESCRIPTION OF POSTULATED INTERACTION:	
Source falls and damages target.	·
EVALUATION OF INTERACTION:	· .
EVALUATION NOTE NO: 5	
Source falls into pump pit and may be drawn in by the pump suction. Further evaluation required.	
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Jorge L Rodriguez 8/9/82 W A Griswold 9/9/82	

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INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET.

BUILDING: INTAKE STRUCTURE			
FIRE ZONE: 22	·		
LOCATION WITHIN FIRE ZONE:			*
POTENTIAL INTERACTION NO.: V-8-172-4			
PHOTOGRAPH NO.: M297			
BACKGROUND NO.: 8-80	·		
IDENTIFICATION OF INTERACTION COMPONENTS:			
TARGET: WTR PUMP #36 (Not Shown)			
SOURCE: DRAIN HEADER #4 (White arrow on	the top center)		
DESCRIPTION OF POSTULATED INTERACTION:			
Source falls and damages target.			
EVALUATION OF INTERACTION:			
EVALUATION NOTE NO: 5			
Source falls into pump pit and may be drawn Further evaluation required. •	in by the pump	suction	•
ACCEPTABLE	X		POTENTIALLY -UNACCEPTABL
Jorge L Rodriguez 8/9/82	W A Griswold	9/9/82	

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EVALUATION SH	EET	
BUILDING: INTAKE STRUCTURE		
FIRE ZONE: 22		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: V-8-172-5		
PHOTOGRAPH NO.: M298		
BACKGROUND NO.: 8-80		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: WTR PUMP #36 (Not shown)		Ä.
SOURCE: DRAIN HEADER #5 (Black arrow on t	he bottom right)	
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls and damages target.		
EVALUATION OF INTERACTION:		·
EVALUATION NOTE NO: 5		
Source falls into pump pit and may be drawn : Further evaluation required.	in by the pump suct	ion.
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
Jorge L Rodriguez 8/9/82 INTERACTION ENGINEER/DATE	W A Griswold 9/9	

Jorge L Rodriguez

INTERACTION ENGINEER / DATE

8/9/82

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: INTAKE STRUCTURE FIRE ZONE: 22 LOCATION WITHIN FIRE ZONE: POTENTIAL INTERACTION NO.: V-8-172-6 PHOTOGRAPH NO.: M299 BACKGROUND NO.: 8-80 IDENTIFICATION OF INTERACTION COMPONENTS: TARGET: WTR PUMP #36 (Black arrow on the top right) SOURCE: DRAIN HEADER #6 (Black arrow on the top left) DESCRIPTION OF POSTULATED INTERACTION: Source falls and damages target. EVALUATION OF INTERACTION: EVALUATION NOTE NO: 5 Source falls into pump pit and may be drawn in by the pump suction. Further evaluation required. POTENTIALLY ACCEPTABLE -UNACCEPTABLE

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W A Griswold 9/9/82

BUILDING: CONTROL BUILDING

FIRE ZONE: 35A

LOCATION WITHIN FIRE ZCNE: A.C. EQUIPMENT ROOM

POTENTIAL INTERACTION NO.: V-8-18 -1

PHOTOGRAPH NO.: M265

BACKGROUND NO.: 8-66

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: AC Unit #32

(White arrow on the top right)

SOURCE: LIGHT FIXTURE

(White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

INTERACTION ENGINEER / DATE VERIFI	ED/DATÉ
Jorge L. Rodriguez 8/9/82 W A Griswold	9/9/82
X ACCEPTABLE	POTENTIALLY ———UNACCEPTABLI
•	
EVALUATION NOTE NO: 3	
EVALUATION OF INTERACTION:	
Source falls on target	
DESCRIPTION OF POSTULATED INTERACTION:	·
SOURCE: LIGHT FIXTURE (White arrow on the top center)	
TARGET: 3"-SWN-109A (Black arrow on the center)	
IDENTIFICATION OF INTERACTION COMPONENTS:	
BACKGROUND NO.: 8-66	
PHOTOGRAPH NO.: M265	
POTENTIAL INTERACTION NO.: V-8-181-1	
LOCATION WITHIN FIRE ZONE: A.C. EQUIPMENT ROOM	
FIRE ZONE: 35A	
BUILDING: CONTROL BUILDING	

BUILDING:	CONTROL	BUILDING

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: HALL OUTSIDE VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-183-1

PHOTOGRAPH NO.: M263

BACKGROUND NO.: 8-66

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: ½"-SWN-113B

(Not Shown)

SOURCE: LIGHT FIXTURE (Black arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

POTENTIALLY -UNACCEPTABLE

Jorge L Rodriguez 8/9/82 INTERACTION ENGINEER / DATE

W A Griswold 9/9/82

VERIFIED/DATE

BUILDING: CONTROL BUILDING

FIRE ZONE:

LOCATION WITHIN FIRE ZCNE: HALL OUTSIDE VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-183-2

PHOTOGRAPH NO.: M263

BACKGROUND NO.: 8-66

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: ½"-SWN-113B (Not Shown)

SOURCE: CONDUIT (Black arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

Jorge L Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

BUILDING: CONTROL BUILDING FIRE ZONE: LOCATION WITHIN FIRE ZONE: HALL OUTSIDE VALVE ROOM POTENTIAL INTERACTION NO.: V-8-183-3 PHOTOGRAPH NO.: M264 BACKGROUND NO.: 8-66 IDENTIFICATION OF INTERACTION COMPONENTS: TARGET: ½"-SWN-113B (Black arrow on the center right) SOURCE: CONDUIT (Black arrow on the top Center) DESCRIPTION OF POSTULATED INTERACTION: Source falls on target EVALUATION OF INTERACTION: EVALUATION NOTE NO: 3 POTENTIALLY ACCEPTABLE -UNACCEPTABLE Jorge L Rodriguez 8/9/82 W A Griswold 9/9/82 INTERACTION ENGINEER / DATE VERIFIED/DATE

Jorge L Rodriguez

INTERACTION ENGINEER / DATE

8/9/82

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: CONTROL BUILDING	
FIRE ZONE:	
LOCATION WITHIN FIRE ZCNE: HALL OUTSIDE VALVE ROOM	
POTENTIAL INTERACTION NO.: V-8-184-1	
PHOTOGRAPH NO.: M263	
BACKGROUND NO.: 8-66	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: ½"-SWN-113A (Not shown)	
SOURCE: LIGHT FIXTURE (Black arrow on the center)	
DESCRIPTION OF POSTULATED INTERACTION:	
Source falls on target	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 3	
•	
x ACCEPTABLE	POTENTIALLY
AAOUITABLE	UNACCEPTABLE

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W A Griswold

9/9/82

BUILDING: CONTROL BUILDING		
FIRE ZONE:		
LOCATION WITHIN FIRE ZONE: H	HALL OUTSIDE VALVE ROOM	
POTENTIAL INTERACTION NO.: V	7-8-184-2	
PHOTOGRAPH NO.: M263		
BACKGROUND NO.: 8-66		
IDENTIFICATION OF INTERACTIO	N COMPONENTS:	•
TARGET: ½"-SWN-113A	(Not Shown)	
SOURCE: CONDUIT	(Black arrow on the center)	
DESCRIPTION OF POSTULATED IN Source falls on target	TERACTION:	
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 3		
X ACCEPTABLE		POTENTIALLY —UNACCEPTABLE
Jorge L Rodriguez 8/9/82	W A Griswald 9/9/82	
INTERACTION ENGINEER / DATE	VERIFIED/DA	TE

Ebasco Services Incorporated

System	No.	.8	
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INTERACTION ENGINEER/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

·
BUILDING: CONTROL BUILDING
FIRE ZONE:
LOCATION WITHIN FIRE ZONE: HALL OUTSIDE VALVE ROOM
POTENTIAL INTERACTION NO.: V-8-184-3
PHOTOGRAPH NO.: M264
BACKGROUND NO.: 8-66
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: ½"-SWN-113A (Black arrow on the center left)
SOURCE: CONDUIT (Black arrow on the top center)
DESCRIPTION OF POSTULATED INTERACTION: Source falls on target
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 3
X ACCEPTABLE POTENTIALLY UNACCEPTABLE
Jorge L Rodriguez 8/9/82 W A Griswold 9/9/82

· Ebasco Services Incorporated

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-185-1

PHOTOGRAPH NO.: M266

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 6"-SWN-FCV-1176 (Black arrow on the center)

SOURCE: CONDUIT

(Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE POTENTIALLY -UNACCEPTABLE

Jorge L Rodriguez 8/9/82

VERIFIED/DATE

W A Griswold 9/9/82

INTERACTION ENGINEER / DATE

BUILDING: DIESEL GENERATOR BUILDING		
FIRE ZONE: 36A		
LOCATION WITHIN FIRE ZONE: VALVE ROOM		
POTENTIAL INTERACTION NO.: V-8-185-2		
PHOTOGRAPH NO.: M266		
BACKGROUND NO.: 8-82		
	•	
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: 6"-SWN-FCV-1176 (Black arrow on	the center)	
SOURCE: SPACE HEATER (Black arrow on	the top center)	
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target	•	
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 5		,
Source has adequate mass to damage target.	Further evaluation r	required.
ACCEPTABLE	X	POTENTIALLYUNACCEPTABLE
Jorge L Rodriguez 8/9/82	W A Griswold 9/9/	82
INTERACTION ENGINEER / DATE	VERIFIED/DATE	

BUILDING: DIESEL GENERATOR BUI	ILDING	
FIRE ZONE: 36A		
LOCATION WITHIN FIRE ZONE: VAL	LVE ROOM	
POTENTIAL INTERACTION NO.: V-8	3-185-3	
PHOTOGRAPH NO.: M266		
BACKGROUND NO.: 8-82		
IDENTIFICATION OF INTERACTION	COMPONENTS:	
TARGET: 6"-SWN-FCV-1176	(Black arrow on the center)	
SOURCE: SPEAKER	(Black arrow on the top right)	
DESCRIPTION OF POSTULATED INTE	ERACTION:	
Source falls on target		
EVALUATION OF INTERACTION:		, ·
EVALUATION NOTE NO: 3		
·		
X ACCEPTABLE	-	POTENTIALLY
		UNACCEPTABLE
Jorge L Rodriguez 8/9/82	W A Griswold 9/9	/82 ·
INTERACTION ENGINEER / DATE	VERIFIED	

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-185-4

PHOTOGRAPH NO.: M267

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 6"-SWN-FCV-1176

(Black arrow on the center left)

SOURCE: BOTTLES

(Black arrow on the center right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

ACCEPTABLE

X

POTENTIALLY
-UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE



BUILDING: DIESEL GENERATOR BUILDING	
FIRE ZONE: 36A	
LOCATION WITHIN FIRE ZONE: VALVE ROOM	
POTENTIAL INTERACTION NO.: V-8-186-1	
PHOTOGRAPH NO.: M266	
BACKGROUND NO.: 8-82	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: 6"-SWN-FCV-1176A (White arrow on the cente	r right)
SOURCE: CONDUIT (Black arrow on the top 1	eft)
DESCRIPTION OF POSTULATED INTERACTION:	
Source falls on target	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 3	•
X ACCEPTABLE	POTENTIALLY UNACCEPTABLE
Jorge L Rodriguez 8/9/82 W A Griswa	
INTERACTION ENGINEER / DATE	VERIFIED/DATE

System	No.	8	
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	BUILDING: DIESEL GENERATOR BUILDING
	FIRE ZONE: 36A
	LOCATION WITHIN FIRE ZONE: VALVE ROOM
	POTENTIAL INTERACTION NO.: V-8-186-2
	PHOTOGRAPH NO.: M266
	BACKGROUND NO.: 8-82
	IDENTIFICATION OF INTERACTION COMPONENTS:
	TARGET: 6"-SWN-FCV-1176A (White arrow on the center right)
	SOURCE: SPACE HEATER (Black arrow on the top center)
	DESCRIPTION OF POSTULATED INTERACTION:
	Source falls on target
•	EVALUATION OF INTERACTION:
	EVALUATION NOTE NO: 5
	Source has adequate mass to damage target. Further evaluation required.
	POTENTIALLY
	ACCEPTABLE X UNACCEPTABLE
	Jorge L Rodriguez 8/9/82 W A Griswold 9/9/82
	INTERACTION ENGINEER / DATE VERIFIED / DATE

DULLI	JING:	DIESEL	GENERATOR	ROTUDING
FIRE	ZONE:	36A		

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-186-3

PHOTOGRAPH NO.: M266

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 6"-SWN-FCV-1176A (White arrow on the center right)

SOURCE: SPEAKER (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE POTENTIALLY UNACCEPTABLE

Jorge L Rodrigues 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82 VERIFIED/DATE

System	No.	-8	
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BUILDING:	DIESEL	GENERATOR	BUILDING
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FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-186-4

PHOTOGRAPH NO.: M267

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 6"-SWN-FCV-1176A (White arrow on the center)

SOURCE: BOTTLES (Black arrow on the center right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

ACCEPTABLE X POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82 W A Griswold 9/9/82

INTERACTION ENGINEER/DATE VERIFIED/DATE

Jorge L Rodriguez

INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

ACCEPTABLE	POTENTIALLY UNACCEPTABLE
EVALUATION NOTE NO: 3	•
EVALUATION OF INTERACTION:	
DESCRIPTION OF POSTULATED INTERACTION: Source falls on target	
SOURCE: CONDUIT (Black arrow on the top	left)
TARGET: SWN-69 (2" VFNT)	er left)
IDENTIFICATION OF INTERACTION COMPONENTS:	
BACKGROUND NO.: 8-82	
PHOTOGRAPH NO.: M266	
POTENTIAL INTERACTION NO.: V-8-187-1	
LOCATION WITHIN FIRE ZONE: VALVE ROOM	
FIRE ZONE: 36A	
BUILDING: DIESEL GENERATOR BUILDING	<u>.</u>

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BUILDING:	DIESEL	GENERATOR	BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-187-2

PHOTOGRAPH NO.: M266

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SWN-69

(White arrow on the center left)

(2"-VENT)

SOURCE: SPACE HEATER (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

ACCEPTABLE X POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

	System	No.	- 8
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BUILDING: DIESEL GENERATOR	BUILDING		
FIRE ZONE: 36A			
LOCATION WITHIN FIRE ZONE:	VALVE ROOM		
POTENTIAL INTERACTION NO.:	V-8-187-3		
PHOTOGRAPH NO.: M266			·
BACKGROUND NO.: 8-82		·	
IDENTIFICATION OF INTERACT	ION COMPONENTS:		
TARGET: SWN-69 (2"-VENT)	(White arrow on the	center left)	
SOURCE: SPEAKER	(Black arrow on the	top right)	
DESCRIPTION OF POSTULATED	INTERACTION:		
Source falls on ta	rget		
•			
EVALUATION OF INTERACTION:			
EVALUATION NÖTE NO:	3	•	
XACCEPTABL	E		POTENTIALLY UNACCEPTABLE
_	:		
Jorge L Rodriguez 8/9/82 INTERACTION ENGINEER/DATE	- `		9/9/82 IED/DATE

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-188-4

PHOTOGRAPH NO.: M267

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 10"-SWN-30 (White arrow on the center right)

SOURCE: BOTTLES

(Black arrow on the center right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82 INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

Jorge L Rodriguez 8/9/82

INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING FIRE ZONE: 36A LOCATION WITHIN FIRE ZONE: VALVE ROOM POTENTIAL INTERACTION NO.: V-8-189-4 PHOTOGRAPH NO.: M267 BACKGROUND NO.: 8-82 IDENTIFICATION OF INTERACTION COMPONENTS: TARGET: 10"-SWN-29 (White arrow on the bottom right) SOURCE: BOTTLES (Black arrow on the center right) DESCRIPTION OF POSTULATED INTERACTION: Source falls on target. EVALUATION OF INTERACTION: EVALUATION NOTE NO: 3 POTENTIALLY -UNACCEPTABLE

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W A Griswold 9/9/82

INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING
FIRE ZONE: 36A
LOCATION WITHIN FIRE ZCNE: VALVE ROOM
POTENTIAL INTERACTION NO.: V-8-190-1
PHOTOGRAPH NO.: M266
BACKGROUND NO.: 8-82
·
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: 3"-SWN-94B (Black arrow on the bottom left)
SOURCE: CONDUIT (Black arrow on the top left)
DESCRIPTION OF POSTULATED INTERACTION:
Source falls: on target.
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 3
•
X ACCEPTABLE POTENTIALLY UNACCEPTABL
Jorge L Rodriguez 8/9/82 W A Griswold 9/9/82

Ebasco Services Incorporated

BUILDING: DIESEL GENERATOR BUILDING	
FIRE ZONE: 36A	
LOCATION WITHIN FIRE ZONE: VALVE ROOM	
POTENTIAL INTERACTION NO.: V-8-190-2	
PHOTOGRAPH NO.: M266	
BACKGROUND NO.: 8-82	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: 3"-SWN-94B (Black arrow on the bottom left)	
SOURCE: SPACE HEATER (Black arrow on the top center)	
DESCRIPTION OF POSTULATED INTERACTION:	
Source falls on target.	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 5	
Source has adequate many to demand to the Europe Tours and the second	3
Source has adequate mass to damage target. Further evaluation requi	
ACCEPTABLE x	POTENTIALLY UNACCEPTABLE
Jorge L Rodriguez 8/9/82 W A Griswold INTERACTION ENGINEER/DATE VERIFIED/	9/9/82
VERIFIED/	DATE

INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

	UNACCEPTABLE
X ACCEPTABLE	POTENTIALLY
EVALUATION NOTE NO: 3	
EVALUATION OF INTERACTION:	
Source falls on target.	
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE: SPEAKER (Black arrow on the top right)	
TARGET: 3"-SWN-94B (Black arrow on the bottom left)	
IDENTIFICATION OF INTERACTION COMPONENTS:	
BACKGROUND NO.: 8-82	
PHOTOGRAPH NO.: M266	
POTENTIAL INTERACTION NO.: V-8-190-3	
LOCATION WITHIN FIRE ZONE: VALVE ROOM	
FIRE ZONE: 36A	
BUILDING: DIESEL GENERATOR BUILDING	

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System	No.	8	
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BUILDING: DIESEL GENERATOR BUILDING		
FIRE ZONE: 36A		
LOCATION WITHIN FIRE ZONE: VALVE ROOM		
POTENTIAL INTERACTION NO.: V-8-191-1		
PHOTOGRAPH NO.: M266		•
BACKGROUND NO.: 8-82		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: 2"-SWN-PCV-1296 (Black	arrow on the center le	eft)
SOURCE: CONDUIT (Black	arrow on the top left)	
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target		•
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 3		
•		
X ACCEPTABLE		POTENTIALLY
		UNACCEPTABLE
Jorge L Rodriguez 8/9/82	W A Griswold	9/9/82
INTERACTION ENGINEER / DATE	VERIFIED/	DATE

BUILDING: DIESEL GENERATOR BUILDING		
FIRE ZONE: 36A		
LOCATION WITHIN FIRE ZONE: VALVE ROOM		
POTENTIAL INTERACTION NO.: V-8-191-2		
PHOTOGRAPH NO.: M266	•	
BACKGROUND NO.: 8-82		
IDENTIFICATION OF INTERACTION COMPONENTS:		,
TARGET: 2"-SWN-PCV-1296 (Black arrow on	the center left)	
SOURCE: SPACE HEATER (Black arrow on	the top center)	
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 5		
		•
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
Jorge L Rodriguez 8/9/82 W	J A Griswo:ld 9/9/	82
INTERACTION ENGINEER/DATE	VERIFIED/	DATE

Jorge L Rodriguez

INTERACTION ENGINEER/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING	
FIRE ZONE: 36A	
LOCATION WITHIN FIRE ZONE: VALVE ROOM	
POTENTIAL INTERACTION NO.: V-8-192-1	
PHOTOGRAPH NO.: M266	
BACKGROUND NO.: 8-82	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: 3"-SWN-108B (Black arrow on the bottom left)	
SOURCE: CONDUIT (Black arrow on the top left)	
DESCRIPTION OF POSTULATED INTERACTION:	
Source falls on target.	•
EVALUATION OF INTERACTION: EVALUATION NOTE NO: 3	
•	
X ACCEPTABLE	POTENTIALLYUNACCEPTABLE
	•

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W A Griswold

9/9/82

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-192-2

PHOTOGRAPH NO.: M266 .

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-108B

(Black arrow on the bottom left)

SOURCE: SPACE HEATER

(Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has

mass to damage target. Further evaluation required.

ACCEPTABLE

POTENTIALLY

-UNACCEPTABLE

Jorge L Rodriguez 8/9/82 INTERACTION ENGINEER / DATE

W A Griswold 9/9/82

VERIFIED/DATE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING
FIRE ZONE: 36A
LOCATION WITHIN FIRE ZCNE: VALVE ROOM
POTENTIAL INTERACTION NO.: V-8-194-1
PHOTOGRAPH NO.: M266
BACKGROUND NO.: 8-82
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: 3"-SWN-94A (White arrow on the top 3rd from the left)
SOURCE: CONDUIT (Black arrow on the top left)
DESCRIPTION OF POSTULATED INTERACTION:
Source falls on target.
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 3
• • • • • • • • • • • • • • • • • • •
X ACCEPTABLE POTENTIALLY
ACCEPTABLE UNACCEPTABLE

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W A Griswold 9/9/82

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-194-2

PHOTOGRAPH NO.: M266

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-94A

(White arrow on the top 3rd from the left)

SOURCE: SPACE HEATER

(Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further information required.

ACCEPTABLE

POTENTIALLY

Jorge L Rodriguez 8/9/82

W A Griswold 9/9/82 VERIFIED/DATE

INTERACTION ENGINEER / DATE

BUILDING:	DIESEL	GENERATOR	BUILDING
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FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-194-3

PHOTOGRAPH NO.: M266

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-94A

(White arrow on the top 3rd from the left)

SOURCE: SPEAKER

(Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
--UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82 VERIFIED/DATE

INTERACTION ENGINEER/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING
FIRE ZONE: 36A
LOCATION WITHIN FIRE ZCNE: VALVE ROOM
POTENTIAL INTERACTION NO.: V-8-195-1
PHOTOGRAPH NO.: M266
BACKGROUND NO.: 8-82
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: 2"-SWN-PCV-1297 (White arrow on the top 2nd from the left)
SOURCE: CONDUIT (Black arrow on the top left)
DECEDITION OF DOCUME AMED INTERACTION.
DESCRIPTION OF POSTULATED INTERACTION:
Source falls on target.
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 3
•
X ACCEPTABLE POTENTIALLY UNACCEPTABLE
Jorge L Rodriguez 8/9/82 W A Griswold 9/9/82

Ebasco Services Incorporated

INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

ACCEPTABLE Jorge L Rodriguez 8/9/82	X	UNACCEPTABLE
	17	POTENTIALLY
Source has adequate mass to damage target.	Further evaluation	on required.
EVALUATION NOTE NO: 5		
EVALUATION OF INTERACTION:		
Source falls on target.		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: SPACE HEATER (Black arrow	on the top center	r)
TARGET: 2"-SWN-PCV-1297 (White arrow	on the top 2nd f	rom the left)
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: 8-82		
PHOTOGRAPH NO.: M266	·	
POTENTIAL INTERACTION NO.: V-8-195-2		
LOCATION WITHIN FIRE ZONE: VALVE ROOM	•	
FIRE ZONE: 36A		
BUILDING: DIESEL GENERATOR BUILDING		
	,	

Ebasco Services Incorporated

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-196-1

PHOTOGRAPH NO.: M266

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-108A (White arrow on the top 1st from the left)

SOURCE: CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82 VERIFIED/DATE

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZCNE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-196-2

PHOTOGRAPH NO.: M266

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-108A

(White arrow on the top 1st from the left)

SOURCE: SPACE HEATER

(Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

ACCEPTABLE

X

POTENTIALLY
-UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

•			
BUILDING: DIESEL GENERATOR BUILDING	G		,
FIRE ZONE: 102A			
LOCATION WITHIN FIRE ZONE:	·		
POTENTIAL INTERACTION NO.: V-8-198-1	1		
PHOTOGRAPH NO.: M269			
BACKGROUND NO.: 8-76		•	
IDENTIFICATION OF INTERACTION COMPO	ONENTS:		
TARGET: SWN-77 (½" VENT)	(Not shown)		
SOURCE: LIGHT FIXTURE	(White arrow	on the top cent	er)
DESCRIPTION OF POSTULATED INTERACTI	ON:		
Source falls on target			
EVALUATION OF INTERACTION:			
EVALUATION NOTE NO: 5			
Source has adequate mass and will Further evaluation required.	ll fall a suf	ficient distanc	e to damage target.
ACCEPTABLE		Х	POTENTIALLYUNACCEPTABLE
Jorge L Rodriguez 8/9/82 INTERACTION ENGINEER/DATE	_	W A Griswold VERI	9/9/82 FIED/DATE

	BUILDING: DIESEL GENERATOR BUILDING	V	
	FIRE ZONE: 102A		
	LOCATION WITHIN FIRE ZONE:	·	
	POTENTIAL INTERACTION NO.: V-8-199-1		
	PHOTOGRAPH NO.: M269		
	BACKGROUND NO.: 8-76		
	IDENTIFICATION OF INTERACTION COMPONENTS:		
	TARGET: 4"-SWN-62F (Not shown)		
	``		
	SOURCE: LIGHT FIXTURE (White arrow	on the top center)	
	DESCRIPTION OF POSTULATED INTERACTION:		
	Source falls on target.		
	EVALUATION OF INTERACTION:		
	EVALUATION NOTE NO:		
	ACCEPTABLE		POTENTIALLY UNACCEPTABLE
	Jorge L Rodriguez 8/9/82		/9/82
	INTERACTION ENGINEER/DATE	VERIFIE	D/DATE
:		•	

System	No.	8	

OR BUILDING
OR BUILDING

FIRE ZONE: 102A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-200-1

PHOTOGRAPH NO.: M269

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SWN-77

(Not shown)

(½" VENT)

SOURCE: LIGHT FIXTURE

(White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target. Further evaluation required. \cdot

ACCEPTABLE

POTENTIALLY

Jorge L Rodriguez 8/9/82

W A Griswold 9/9/82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

BUILDING: DIESEL GENERATOR BUILDING		
FIRE ZONE:102A		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: V-8-201-1		
PHOTOGRAPH NO.: M269		
BACKGROUND NO.: 8-76		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: 4"-SWN-62E (Not shown)		
SOURCE: LIGHT FIXTURE (White arrow	v on the top cente	r)
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 3		
-		
•		
XACCEPTABLE		POTENTIALLYUNACCEPTABLE
▼		
Jorge L Rodriguez 8/9/82	W A Griswold	9/9/82
INTERACTION ENGINEER / DATE	VERIF	IED/DATE
'		

BUILDING: DIESEL GENERATOR BUILDING		•
FIRE ZONE:102A		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: V-8-202-1		•
PHOTOGRAPH NO.: M269	•	
BACKGROUND NO.: 8-76		
IDENTIFICATION OF INTERACTION COMPON	NENTS:	
TARGET: SWN-63 (Not	shown)	
SOURCE: LIGHT FIXTURE (Whi	ite arrow on the top cente	er)
DESCRIPTION OF POSTULATED INTERACTION	ON:	
Source falls on target		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 5		•
Source has adequate mass and wil Further evaluation required.	l fall a sufficient dista	ance to damage target.
ACCEPTABLE	X	POTENTIALLY ———UNACCEPTABLE
Jorge L Rodriguez 8/9/82	W A Griswol	d 9/9/82
INTERACTION ENGINEER / DATE		RIFIED/DATE

INTERACTION ENGINEER / DATE	VERIFIED/DA	TE
Jorge L Rodriguez 8/9/82	W A Griswold 9/9/82	2
ACCEPTABLE	-	POTENTIALLY -UNACCEPTABLI
	•	
evaluation Note No: 3		
EVALUATION OF INTERACTION:		
DIAL HAMLON OF TAMER COTTON		
Source falls on target		
DESCRIPTION OF POSTULATED INTERACTION:		•
SOURCE: LIGHT FIXTURE	(White arrow on the top center)	·
TARGET: LUBE OIL COOLER #33	(Not shown)	
IDENTIFICATION OF INTERACTION COMPONEN	NTS:	
	1	
BACKGROUND NO.: 8-76		
PHOTOGRAPH NO.: M269		
POTENTIAL INTERACTION NO.: V-8-203-1		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 102A	•	
BUILDING: DIESEL GENERATOR BUILDING	· ·	

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BUILDING: DIESEL GENERATOR BUILDING	•
FIRE ZONE: 102A	
LOCATION WITHIN FIRE ZCNE:	
POTENTIAL INTERACTION NO.: V-8-204-1	
PHOTOGRAPH NO.: M269	
BACKGROUND NO.: 8-76	
	,
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: JACKET WATER COOLER #33	(Not shown)
SOURCE: LIGHT FIXTURE	(White arrow on the top center)
DESCRIPTION OF POSTULATED INTERACTION:	
Source falls on target.	
Tours Tarre on target.	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 3	
X ACCEPTABLE	POTENTIALLY ——UNACCEPTABLE
	UNACCEPTABLE
Jorge L Rodriguez 8/9/82	W A Griswold 9/9/82
INTERACTION ENGINEER / DATE	VERIFIED/DATE

INTERACTION ENGINEER/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

	ACCEPTABLE		X	POTENTIALLY ——UNACCEPTABLI
	has adequate mass r evaluation requir	and will fall a sufficed.	cient distance to	damage target.
	ATION NOTE NO: 5		•	
	OF INTERACTION:			
Sourc	e falls on target.			
DESCRIPTION	N OF POSTULATED INT	TERACTION:		
SOURCE	E: LIGHT FIXTURE	(White arrow on th	e top center)	
TARGE'	T: SWN-75 (½" VENT)	(Not shown)		
IDENTIFICA	TION OF INTERACTION	N COMPONENTS:		
BACKGROUND	NO.: 8-76			
PHOTOGRAPH	NO.: M269			
POTENTIAL	INTERACTION NO.: V	-8-205-1		
LOCATION W	ITHIN FIRE ZCNE:			
FIRE ZONE:	102A			
			,	

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BUILDING: DIESEL GENERATOR BUILDING
FIRE ZONE: 102A
LOCATION WITHIN FIRE ZONE:
POTENTIAL INTERACTION NO.: V-8-206-1
PHOTOGRAPH NO.: M269
BACKGROUND NO.: 8-76
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: 4"-SWN-67 (not shown)
SOURCE: LIGHT FIXTURE (White arrow on the top center)
DESCRIPTION OF POSTULATED INTERACTION:
Source falls on target.
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 3
X ACCEPTABLE POTENTIALLY UNACCEPTABLE
Jorge L Rodriguez 8/9/82 W A Griswold 9/9/82 INTERACTION ENGINEER/DATE VERIFIED/DATE

BUILDING: DIESEL GENERATOR BUILDING		
FIRE ZONE: 101A		
LOCATION WITHIN FIRE ZONE:	·	
POTENTIAL INTERACTION NO.: V-8-207-1		
PHOTOGRAPH NO.: M270		
BACKGROUND NO.: 8-76		
IDENTIFICATION OF INTERACTION COMPONEN	TTS:	
TARGET: SWN-77 (not shown (½" VENT)	n)	
SOURCE: LIGHT FIXTURE (White arm	row on the top center)	
DESCRIPTION OF POSTULATED INTERACTION:		·
Source falls on target.		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 5	·	
Source has adequate mass and will fal Further evaluation required.	.l a sufficient distance to da	amage target.
ACCEPTABLE	X	POTENTIALLYUNACCEPTABLE
Jorge L Rodriguez 8/9/82 INTERACTION ENGINEER/DATE	W A Griswold 9/9 VERIFIED	9/82 /DATE
INIERACTION ENGINEER/DATE	VERIFIED/	DATE

INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

X ACCEPTABLE		POTENTIALLY —UNACCEPTABLE
		· .
EVALUATION NOTE NO: 3	•	
EVALUATION OF INTERACTION:		•.
Source falls on target.		
DESCRIPTION OF POSTULATED INTERACTION:		·
SOURCE: LIGHT FIXTURE (White arrow on the top center)		
(net blown)		
TARGET: 4"-SWN-62D (not shown)		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: 8-76		
PHOTOGRAPH NO.: M270		
POTENTIAL INTERACTION NO.: V-8-208-1		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 101A		
BUILDING: DIESEL GENERATOR BUILDING	•	

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BUILDING: DIESEL GENERATOR BUILDING		
FIRE ZONE: 101A		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: V-8-209-1		
PHOTOGRAPH NO.: M270		
BACKGROUND NO.: 8-76		•
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: SWN-77 (not shown) (1/2" VENT)		
SOURCE: LIGHT FIXTURE (White arrow of	on the top center)	·
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target		
EVALUATION OF INTERACTION:		4.
EVALUATION NOTE NO: 5	•	
Source has adequate mass and will fall a suff Further evaluation required	ficient distance to	damage target.
ACCEPTABLE	x	POTENTIALLYUNACCEPTABLE
Jorge L Rodriguez 8/9/82	W A Griswold	9/9/82
INTERACTION ENGINEER / DATE	VERIFIE	ED/DATE

DUILDING.	DIESEL	GENE	KAIUK	DUILDING
FIRE ZONE:	101A			
LOCATION W	ITHIN I	FIRE	ZCNE:	

POTENTIAL INTERACTION NO.: V-8-210-1

PHOTOGRAPH NO.: M270

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-SWN-62C (not shown)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

Jorge L Rodriguez 8/9/82

UNACCEPTABLE

W A Grisvold 9/9/82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

Jorge L Rodriguez 8/9/82 INTERACTION ENGINEER/DATE	<u>W A Griswold 9/9/8</u> VERIFIED/DA	
ACCEPTABLE	x	POTENTIALLY —UNACCEPTABLE
Source has adequate mass and will fall a su Further evaluation required.	officient distance to dama	age target.
EVALUATION NOTE NO: 5	, :	
EVALUATION OF INTERACTION:		• .
Source falls on target		
DESCRIPTION OF POSTULATED INTERACTION:	•	
SOURCE: LIGHT FIXTURE (White arrow on the	top center)	
TARGET: SWN-63 (not shown) (3/4" SRV)		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: 8-76		
PHOTOGRAPH NO.: M270	`	
POTENTIAL INTERACTION NO.: V-8-211-1		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 101A		
BUILDING: DIESEL GENERATOR BUILDING	•	

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 101A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-212-1

PHOTOGRAPH NO.: M270

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: LUBE OIL COOLER #32

(not shown)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

-UNACCEPTABLE

Jorge L Rodriguez 8/9/82

INTERACTION ENGINEER / DATE

W A Griswold 9/9/82

VERIFIED/DATE

System	No.	8	

EVALUATION SHEET	•	
BUILDING: DIESEL GENERATOR BUILDING		
FIRE ZONE: 101A	· ·	
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: V-8-213-1		
PHOTOGRAPH NO.: M270		
BACKGROUND NO.: 8-76		
•		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: JACKET WATER COOLER #32 (not shown)		
SOURCE: LIGHT FIXTURE (White arrow on the	e top center)	
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target.	·	
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 3		
	•	
X ACCEPTABLE		POTENTIALLY UNACCEPTABLE
	W A Griswold	9/9/82
INTERACTION ENGINEER/DATE	VERIFIE	D/DATE

INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING		· ·
FIRE ZONE: 101A		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: V-8-214-1		
PHOTOGRAPH NO.: M270		
BACKGROUND NO.: 8-76		
· ·		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: SWN-75 (not shown) (½"VENT)		
SOURCE: LIGHT FIXTURE (White arrow	on the top center)	
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 5		
Source has adequate mass and will fall a Further evaluation required.	sufficient distance	to damage target.
ACCEPTABLE	x	POTENTIALLY UNACCEPTABLE
Jorge L Rodriguez 8/9/82	W A Griswold	9/9/82

Ebasco Services Incorporated

DUILDING.	DIESEL	GENERATOR	DOTTDING

FIRE ZONE: 101A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-215-1

PHOTOGRAPH NO.: M270

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-SWN-67 (not shown)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
--UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

BUILDING:	DIESEL	GENERATOR	BUILDING

FIRE ZONE: 10

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-216-1

PHOTOGRAPH NO.: M271

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SWN-77

(not shown)

(½"VENT)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target. Further evaluation required.

ACCEPTABLE

POTENTIALLY
-----UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82 VERIFIED/DATE

INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

X ACCEPTABLE	POTENTIALLYUNACCEPTABLE
EVALUATION NOTE NO: 3	
EVALUATION OF INTERACTION:	٠,
Source falls on target.	
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE: LIGHT FIXTURE (White arrow on the top center)	
TARGET: 4"-SWN-62A (not shown)	
IDENTIFICATION OF INTERACTION COMPONENTS:	
BACKGROUND NO.: 8-76	
PHOTOGRAPH NO.: M271	
POTENTIAL INTERACTION NO.: V-8-217-1	
LOCATION WITHIN FIRE ZONE:	
FIRE ZONE: 10	
BUILDING: DIESEL GENERATOR BUILDING	

Ebasco Services Incorporated

INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

(3/4" SRV)	ot shown) White arrow on the t TERACTION:	. T	mage target.
ET: SWN-63 (no (3/4" SRV) CE: LIGHT FIXTURE (ON OF POSTULATED IN: e falls on target	t shown) White arrow on the t	op center)	
ET: SWN-63 (no (3/4" SRV) CE: LIGHT FIXTURE (ON OF POSTULATED IN:	t shown) White arrow on the t	op center)	
ET: SWN-63 (no (3/4" SRV) CE: LIGHT FIXTURE (ON OF POSTULATED IN:	t shown) White arrow on the t	op center)	
ET: SWN-63 (no (3/4" SRV) CE: LIGHT FIXTURE (t shown) White arrow on the t	op center)	
ET: SWN-63 (no (3/4" SRV)	t shown)	op center)	
ET: SWN-63 (no			
ATION OF INTERACTION	N COMPONENTS:	•	
	N COMONENTE.		
D NO.: 8-76	1		
H NO.: M271		•	
INTERACTION NO.: V	-8-218-1		
WITHIN FIRE ZONE:			
: 10		<u>.</u>	
DIESEL GENERATOR BU	ILDING	•	
,	WITHIN FIRE ZONE: LINTERACTION NO.: V PH NO.: M271	WITHIN FIRE ZCNE: UNITERACTION NO.: V-8-218-1 OH NO.: M271	WITHIN FIRE ZCNE: LINTERACTION NO.: V-8-218-1 PH NO.: M271

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ROILDING:	DIESEL	GENERATOR	BUILDING
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FIRE ZONE: 10

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-219-1

PHOTOGRAPH NO.: M271

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: LUBE OIL COOLER #31 (not shown)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 10

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-220-1

PHOTOGRAPH NO.: M271

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: JACKET WATER COOLER #31 (not shown)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
-UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING
FIRE ZONE: 10
LOCATION WITHIN FIRE ZONE:
POTENTIAL INTERACTION NO.: V-8-221-1
PHOTOGRAPH NO.: M271
BACKGROUND NO.: 8-76
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: SWN-77 (not shown) (1/2" VENT)
SOURCE: LIGHT FIXTURE (White arrow on the top center)
DESCRIPTION OF POSTULATED INTERACTION:
Source falls on target.
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 5
Source has adequate mass and will fall a sufficient distance to damage target. Further evaluation required.
ACCEPTABLE X POTENTIALLY UNACCEPTABLE
Jorge L Rodriguez 8/9/82 W A Griswold 9/9/82

Ebasco Services Incorporated

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 10

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-222-1

PHOTOGRAPH NO.: M271

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-SWN-62B (not shown)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82 W A Griswold 9/9/82

INTERACTION ENGINEER/DATE VERIFIED/DATE

RAITDING:	DIESEL	GENERATOR	BUILDING

FIRE ZONE: 10

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-223-1

PHOTOGRAPH NO.: M271

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SWN-75

(not shown)

(½" VENT)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target. Further evaluation required.

ACCEPTABLE

x POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

X ACCEPTABLE	UNACCEPTABLE
A COPPEARIN	POTENTIALLY
EVALUATION NOTE NO: 3	
EVALUATION OF INTERACTION:	••
Source rairs on target	
Source falls on target	
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE: LIGHT FIXTURE (White arrow on the top center)	
TARGET: 4"-SWN-67 (not shown)	
IDENTIFICATION OF INTERACTION COMPONENTS:	·
BACKGROUND NO.: 8-76	
PHOTOGRAPH NO.: M271	
POTENTIAL INTERACTION NO.: V-8-224-1	
LOCATION WITHIN FIRE ZONE:	
FIRE ZONE: 10	
BUILDING: DIESEL GENERATOR BUILDING	
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	x ACCEPTABLE	POTENTIALLY -
•	EVALUATION OF INTERACTION: EVALUATION NOTE NO: 3	•
	Source falls on target	
	DESCRIPTION OF POSTULATED INTERACTION:	
) -	SOURCE: CONDUIT (Black arrow on the top left)	
	TARGET: 2½"-SWN-27 (Black arrow on the bottom left corner)	
	IDENTIFICATION OF INTERACTION COMPONENTS:	
	BACKGROUND NO.: 8-67	
	PHOTOGRAPH NO.: M260	
	POTENTIAL INTERACTION NO.: V-8-225-1	
	LOCATION WITHIN FIRE ZCNE:	
	FIRE ZONE: 14	
	BUILDING: CONTROL BUILDING	

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FIRE ZONE: 14	
LOCATION WITHIN FIRE ZONE:	
BACKGROUND NO.: 8-67	
IDENTIFICATION OF INTERACTION COMPONENTS.	
TARGET: 2½"-SWN-27 (not shown)	,
SOURCE: STATION AIR HEADER (Black arrow on the top left)	
DESCRIPTION OF POSTULATED INTERACTION:	·
Source falls on target	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 3	
	DOWENETALLY
ACCEPTABLE	POTENTIALLYUNACCEPTABLE
Jorge L Rodriguez 8/9/82 W A Griswold INTERACTION ENGINEER/DATE VEN	d 9/9/82 RIFIED/DATE
	LOCATION WITHIN FIRE ZCNE: POTENTIAL INTERACTION NO.: V-8-225-3 PHOTOGRAPH NO.: M262 BACKGROUND NO.: 8-67 IDENTIFICATION OF INTERACTION COMPONENTS: TARGET: 2½"-SWN-27 (not shown) SOURCE: STATION AIR HEADER (Black arrow on the top left) DESCRIPTION OF POSTULATED INTERACTION: Source falls on target EVALUATION OF INTERACTION: EVALUATION NOTE NO: 3 ** ACCEPTABLE Jorge L Rodriguez 8/9/82 W A Griswold

RAILDING:	CONTROL	BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-226-1

PHOTOGRAPH NO.: M260

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: $2\frac{1}{2}$ "-SWN-70 (White arrow on the bottom center)

SOURCE: CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

x ACCEPTABLE

POTENTIALLY
---UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82 VERIFIED/DATE

BUILDING: CONTROL BUILDING		
FIRE ZONE: 14		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: V-8-226-3		
PHOTOGRAPH NO.: M262		,
BACKGROUND NO.: 8-67		
	•	
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: 2½"-SWN-70 (not shown)		,
SOURCE: STATION AIR HEADER (Black arrow on	the top left)	
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 3		
ACCEPTABLE		POTENTIALLY UNACCEPTABLE
Jorge L Rodriguez 8/9/82	W A Griswold	9/9/82
INTERACTION ENGINEER / DATE		FIED/DATE

INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: CONTROL BUILDING	
FIRE ZONE: 14	•
LOCATION WITHIN FIRE ZONE:	
POTENTIAL INTERACTION NO.: V-8-227-1	
PHOTOGRAPH NO.: M260	
BACKGROUND NO.: 8-67	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: SWN-86 (3/4" X 1" SRV) (White arrow on the bottom 3rd from	the left)
SOURCE: CONDUIT (Black arrow on the top left)	
DESCRIPTION OF POSTULATED INTERACTION:	
Source falls on target	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 3	
x ACCEPTABLE	POTENTIALLY -UNACCEPTABLE
	UNACCEF TABLE
Jorge L Rodriguez 8/9/82 W A Griswold 9/9/83	2

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Jorge L Rodriguez 8/9/82

INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: CONTROL BUILDING	
FIRE ZONE: 14	
LOCATION WITHIN FIRE ZONE:	
POTENTIAL INTERACTION NO.: V-8-227-3	
PHOTOGRAPH NO.: M262	
BACKGROUND NO.: 8-67	
•	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: SWN-86 (3/4" X 1" SRV) (not shown)	
SOURCE: STATION AIR HEADER (Black arrow on the top left)	
DESCRIPTION OF POSTULATED INTERACTION:	
Source falls on target	,
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 5	
Source has adequate mass and will fall a sufficient distance Further evaluation required.	to damage target.
ACCEPTABLE	POTENTIALLYUNACCEPTABLE

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W A Griswold 9/9/82

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-228-1

PHOTOGRAPH NO.: M260

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: COOLING WATER HT. EXCH NO 32 (White arrow on the center)

SOURCE: CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

X ACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82 VERIFIED/DATE

Jorge L Rodriguez 8/9/82

INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: CONTROL BUILDING FIRE ZONE: 14 LOCATION WITHIN FIRE ZONE: POTENTIAL INTERACTION NO.: V-8-228-2 PHOTOGRAPH NO.: M261 BACKGROUND NO.: 8-67 IDENTIFICATION OF INTERACTION COMPONENTS: (White arrow on the bottom left) TARGET: COOLING WATER HT, EXCH NO 32 SOURCE: LIGHT FIXTURE (White arrow on the top right corner) DESCRIPTION OF POSTULATED INTERACTION: Source falls on target EVALUATION OF INTERACTION: EVALUATION NOTE NO: 3 POTENTIALLY ACCEPTABLE -UNACCEPTABLE

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W A Griswold 9/9/82

INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: CONTROL BUILDING	
FIRE ZONE:14	
LOCATION WITHIN FIRE ZONE:	
POTENTIAL INTERACTION NO.: V-8-228-3	
PHOTOGRAPH NO.: M262	
BACKGROUND NO.: 8-67	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: COOLING WATER HT. EXCH NO 32 (not shown)	
SOURCE: STATION AIR HEADER (Black arrow on the top left)	
DESCRIPTION OF POSTULATED INTERACTION:	
Source falls on target	
EVALUATION OF INTERACTION:	-
EVALUATION NOTE NO: 3	
·	
ACCEPTABLE	POTENTIALLY UNACCEPTABLE
Jorge L Rodriguez 8/9/82 W A Griswold 9/9	9/82

Ebasco Services Incorporated

BUILDING: CONTROL BUILDING	
FIRE ZONE: 14	
LOCATION WITHIN FIRE ZONE:	
POTENTIAL INTERACTION NO.: V-8-229-1	
PHOTOGRAPH NO.: M260	
BACKGROUND NO.: 8-67	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: 25"-SWN-28 (White arrow on the b	oottom 2nd from the left)
SOURCE: CONDUIT (Black arrow on the to	op left)
DECORTORION OF DOCUMENT AND THE TAREST OF TON.	
DESCRIPTION OF POSTULATED INTERACTION:	
Source falls on target	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 3	
X ACCEPTABLE	POTENTIALLY
ACCEPTABLE	UNACCEPTABL
Jorge L Rodriguez 8/9/82	W A Griswold 9/9/82
INTERACTION ENGINEER / DATE	VERIFIED/DATE

BUILDING: CONTROL BUILDING	
FIRE ZONE: 14	
LOCATION WITHIN FIRE ZCNE:	·
POTENTIAL INTERACTION NO.: V-8-229-3	
PHOTOGRAPH NO.: M262	,
BACKGROUND NO.: 8-67	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: 25"-SWN-28 (not shown)	
SOURCE: STATION AIR HEADER (Black arrow on	the top left)
DESCRIPTION OF POSTULATED INTERACTION:	
Source falls on target	
EVALUATION OF INTERACTION:	+ · ·
EVALUATION NOTE NO: 3	
EVALUATION NOTE NO: 3	
•	
xACCEPTABLE	POTENTIALLY UNACCEPTABLE
•	•
Jorge L Rodriguez 8/9/82 INTERACTION ENGINEER/DATE	W A Griswold 9/9/82 VERIFIED/DATE

Ebasco Services Incorporated

System	No.	8	

BUILDING: CONTROL BUILDING		
FIRE ZONE: 14		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: V-8-230-1		
PHOTOGRAPH NO.: M259		
BACKGROUND NO.: 8-67		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: 3"-SWN-87 (White arrow on the ce	nter left)	
SOURCE: CONDUIT (Black arrow on the to	p center)	
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 3		
xACCEPTABLE		POTENTIALLY UNACCEPTABLE
Jorge L Rodriguez 8/9/82	W A Griswold	9/9/82
INTERACTION ENGINEER / DATE	VERI	FIED/DATE

	Jorge L Rodriguez 8/9/82 W A Griswold INTERACTION ENGINEER/DATE VERIFIT VE	9/9/82 ED/DATE
	* ACCEPTABLE	POTENTIALLY UNACCEPTABLE
	EVALUATION OF INTERACTION: EVALUATION NOTE NO: 3	
-	DESCRIPTION OF POSTULATED INTERACTION: Source falls on target	
	SOURCE: STATION AIR HEADER (Black arrow on the top left)	
,	IDENTIFICATION OF INTERACTION COMPONENTS: TARGET: 3"-SWN-87 (not shown)	,
	PHOTOGRAPH NO.: M262 BACKGROUND NO.: 8-67	
	POTENTIAL INTERACTION NO.: V-8-230-3	
	LOCATION WITHIN FIRE ZONE:	
	BUILDING: CONTROL BUILDING FIRE ZONE:14	

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	INTERACTION ENGINEER / DATE VERIFIED / DATE	TE
·	ACCEPTABLE Jorge L Rodriguez 8/9/82 W A Griswold 9/9/8	POTENTIALLYUNACCEPTABLE
	EVALUATION OF INTERACTION: EVALUATION NOTE NO: 3	
	DESCRIPTION OF POSTULATED INTERACTION: Source falls on target	
) × ^t	SOURCE: CONDUIT (Black arrow on the top center)	
····	IDENTIFICATION OF INTERACTION COMPONENTS: TARGET: 3"-SWN-87 (White arrow on the center right)	
	BACKGROUND NO.: 8-67	
	POTENTIAL INTERACTION NO.: V-8-231-1 PHOTOGRAPH NO.: M259	
	LOCATION WITHIN FIRE ZONE:	
	FIRE ZONE:14	
	BUILDING: CONTROL BUILDING	

POTENTIALLY

BUILDING: CONTROL BUILDING

POWER AUTHORITY OF THE STATE OF NEW YORKINDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION ' EVALUATION SHEET

FIRE ZONE: 14
LOCATION WITHIN FIRE ZONE:
POTENTIAL INTERACTION NO.: V-8-231-3
PHOTOGRAPH NO.: M262
BACKGROUND NO.: 8-67
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: 3"-SWN-87 (not shown)
SOURCE: STATION AIR HEADER (Black arrow on the top left)
DESCRIPTION OF POSTULATED INTERACTION:
Source falls on target
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 3

Jorge L Rodriguez 8/9/82 W A Griswold 9/9/82
INTERACTION ENGINEER/DATE VERIFIED/DATE

ACCEPTABLE

INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING:	CONTROL BUILDING	
FIRE ZONE:	14	
LOCATION WIT	THIN FIRE ZCNE:	
POTENTIAL II	NTERACTION NO.: V-8-232-1	
PHOTOGRAPH 1	NO.: M259	
BACKGROUND 1	NO.: 8-67	
IDENTIFICAT	ION OF INTERACTION COMPONENTS:	. ~
TARGET	: $1\frac{1}{2}$ "-SWN-TCV-1113 (Black arrow on the center)	
SOURCE	: CONDUIT (Black arrow on the top center)	
DESCRIPTION	OF POSTULATED INTERACTION:	·
Sour	ce falls on target	
EVALUATION C	OF INTERACTION:	
EVALUAT	ION NOTE NO: 3	
•		
x	ACCEPTABLE	POTENTIALLY UNACCEPTABLE
Jorge L Ro	driguez 8/9/82 W A Griswold 9/9/82	

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INTERACTION ENGINEER/DATE	VERIFIED/DA	
Jorge L Rodriguez 8/9/82	W A Griswold 9/9/82	
•		United Timbi
ACCEPTABLE	x	POTENTIALLY -UNACCEPTABLE
Source has adequate mass and will fall a target. Further evaluation required.	a sufficient distance to	damage
EVALUATION NOTE NO: 5		
EVALUATION OF INTERACTION:		
Source falls on target		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: STATION AIR HEADER (Black arrow	on the top left)	
TARGET: 1½"-SWN-TCV-1113 (no	t shown)	
IDENTIFICATION OF INTERACTION COMPONENTS:	•	
BACKGROUND NO.: 8-67		
PHOTOGRAPH NO.: M262		
POTENTIAL INTERACTION NO.: V-8-232-3		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 14		
BUILDING: CONTROL BUILDING		

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bybeem no.	System	No.	8	
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Jorge L Rodriguez

INTERACTION ENGINEER / DATE

Sheet 497	of521
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POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: CONTROL BUILDING	
FIRE ZONE: 14	
LOCATION WITHIN FIRE ZONE:	
POTENTIAL INTERACTION NO.: V-8-233-1	
PHOTOGRAPH NO.: M259	
BACKGROUND NO.: 8-67	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: 3"-SWN-47 (Black arrow on the top right corner)	
SOURCE: CONDUIT (Black arrow on the top center)	
DESCRIPTION OF POSTULATED INTERACTION:	•
Source falls on target	
EVALUATION OF INTERACTION:	·
EVALUATION NOTE NO: 3	· •
xACCEPTABLE	POTENTIALLYUNACCEPTABLE

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W A Griswald

9/9/82

System	No.	8
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Jorge L Rodriguez 8/9/3
INTERACTION ENGINEER/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: CONTROL BUILDING	
FIRE ZONE: 14	
LOCATION WITHIN FIRE ZONE:	
POTENTIAL INTERACTION NO.: V-8-233-3	
PHOTOGRAPH NO.: M262	
BACKGROUND NO.: 8-67	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: 3"-SWN-47 (not shown)	
SOURCE: STATION AIR HEADER (Black arrow on the top left)	
DESCRIPTION OF POSTULATED INTERACTION:	· ·
Source falls on target	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 3	
x ACCEPTABLE	POTENTIALLY —UNACCEPTABLE

Ebasco Services Incorporated

W A Griswold 9/9/82

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-234-1

PHOTOGRAPH NO.: M260

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: $2\frac{1}{2}$ "-SWN-28 (White arrow on the top left)

SOURCE: CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

_____ACCEPTABLE

POTENTIALLY
—UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82 VERIFIED/DATE

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-234-3

PHOTOGRAPH NO.: M262

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2½"-SWN-28 (not shown)

SOURCE: STATION AIR HEADER (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82 W A Griswold 9/9/82

INTERACTION ENGINEER/DATE VERIFIED/DATE

Jorge L Rodriguez 8/9/82

INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

x ACCEPTABLE	POTENTIALLY UNACCEPTABL
EVALUATION NOTE NO: 3	
EVALUATION OF INTERACTION:	•
Source falls on target	
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE: CONDUIT (Black arrow on the top left)	
TARGET: $2\frac{1}{2}$ "-SWN-27 (White arrow on the center left)	
IDENTIFICATION OF INTERACTION COMPONENTS:	
BACKGROUND NO.: 8-67	
PHOTOGRAPH NO.: M260	
POTENTIAL INTERACTION NO.: V-8-235-1	
LOCATION WITHIN FIRE ZONE:	
FIRE ZONE: 14	
BUILDING: CONTROL BUILDING	

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9/9/82

VERIFIED/DATE

W A Griswold

Jorge L Rodriguez 8/9/87 INTERACTION ENGINEER/DATE	-	W A Griswold VERIFIE	ED/DATE
Jorge L. Rodriguez, 8/9/8		W A Griswold	9/9/82
xACCEPTABLE	•		POTENTIALLY UNACCEPTABLE
EVALUATION NOTE NO: 3	•		
EVALUATION OF INTERACTION:			•
Source falls on targ	et		
DESCRIPTION OF POSTULATED I	NTERACTION:		
SOURCE: STATION AIR HE	ADER (Black arrow o	on the top left)	
TARGET: 2½"-SWN-27 ((not shown)		
IDENTIFICATION OF INTERACTI	ON COMPONENTS:	<i>,</i>	
BACKGROUND NO.: 8-67			
PHOTOGRAPH NO.: M262			
POTENTIAL INTERACTION NO.:	V-8-235-3		
LOCATION WITHIN FIRE ZCNE:			
FIRE ZONE: 14			
BUILDING: CONTROL BUILDING	ļ.		

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-236-1

PHOTOGRAPH NO.: M260

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2½"-SWN-70

(Black arrow on the center left)

SOURCE: CONDUIT

(Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
-UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

INTERACTION ENGINEER / DATE W A Griswold 9/9/82 VERIFIED / DA	2 TE
Torgo I Balaina - 0/0/00	,'
ACCEPTABLE	POTENTIALLY -UNACCEPTABLE
•	•
EVALUATION NOTE NO: 3	
EVALUATION OF INTERACTION:	. •
Source falls on target	
DESCRIPTION OF POSTULATED INTERACTION:	
· · · · · · · · · · · · · · · · · · ·	
SOURCE: STATION AIR HEADER (Black arrow on the top left)	
TARGET: 2½"-SWN-70 (not shown)	
IDENTIFICATION OF INTERACTION COMPONENTS:	
BACKGROUND NO.: 8-67	
POTENTIAL INTERACTION NO.: V-8-236-3	
LOCATION WITHIN FIRE ZONE:	
FIRE ZONE: 14	
BUILDING: CONTROL BUILDING	
	FIRE ZONE: 14 LOCATION WITHIN FIRE ZONE: POTENTIAL INTERACTION NO.: V-8-236-3 PHOTOGRAPH NO.: M262 BACKGROUND NO.: 8-67 IDENTIFICATION OF INTERACTION COMPONENTS: TARGET: 2½"-SWN-70 (not shown) SOURCE: STATION AIR HEADER (Black arrow on the top left) DESCRIPTION OF POSTULATED INTERACTION: Source falls on target EVALUATION OF INTERACTION: EVALUATION NOTE NO: 3 ** ACCEPTABLE Jorge L Rodriguez 8/9/82 INTERACTION ENGINEER/DATE WA Griswold 9/9/83 VERIFIED/DA

EUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-237-1

PHOTOGRAPH NO.: M260

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SWN-86

(Black arrow on the top 2nd from the left)

SOURCE: CONDUIT

(Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
-UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

	BUILDING: CONTROL BUILDING
	FIRE ZONE: 14
	LOCATION WITHIN FIRE ZONE:
	POTENTIAL INTERACTION NO.: V-8-237- 3
	PHOTOGRAPH NO.: M262
	BACKGROUND NO.:
	IDENTIFICATION OF INTERACTION COMPONENTS:
-,,-	TARGET: SWN-86 (not shown)
	\cdot
	SOURCE: STATION AIR HEADER (Black arrow on the top left)
	DESCRIPTION OF POSTULATED INTERACTION:
	Source falls on target
	EVALUATION OF INTERACTION:
	EVALUATION NOTE NO: 5
	Source has adequate mass and will fall a sufficient distance to damage target. Further evaluation required.
	ACCEPTABLE X POTENTIALLY UNACCEPTABLE
	Jorge L Rodriguez 8/9/82 W A Griswold 9/9/82 INTERACTION ENGINEER/DATE VERIFIED/DATE
	. VERIFIED/DATE

INTERACTION ENGINEER/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: CONTROL BUILDING FIRE ZONE: 14 LOCATION WITHIN FIRE ZONE: POTENTIAL INTERACTION NO.: V-8-238-1 PHOTOGRAPH NO.: M260 BACKGROUND NO.: 8-67 IDENTIFICATION OF INTERACTION COMPONENTS: TARGET: COOLING WATER HT. EXCH. #31 (Black arrow on the center) SOURCE: CONDUIT (Black arrow on the top left) DESCRIPTION OF POSTULATED INTERACTION: Source falls on target EVALUATION OF INTERACTION: EVALUATION NOTE NO: 3 POTENTIALLY ACCEPTABLE -UNACCEPTABLE Jorge L Rodriguez 8/9/82 W A Griswold 9/9/82

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VERIFIED/DATE

INTERACTION ENGINEER/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: CONTROL BUILDING		
FIRE ZONE: 14		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: V-8-238-2		
PHOTOGRAPH NO.: M261		
BACKGROUND NO.: 8-67		
		•
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: COOLING WATER HT. EXCH. #31 (Black arrow	on the center	left)
SOURCE: LIGHT FIXTURE (White arrow on the top right	ht corner)	
DESCRIPTION OF POSTULATED INTERACTION:		·
Source falls on target		
EVALUATION OF INTERACTION: EVALUATION NOTE NO: 3		
ACCEPTABLE		POTENTIALLY UNACCEPTABLI
Jorge L Rodriguez 8/9/82 W A G	Friswold	9/9/82

Ebasco Services Incorporated

VERIFIED/DATE

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-238-3

PHOTOGRAPH NO.: M262

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: COOLING WATER HT. EXCH. #31 (not shown)

SOURCE: STATION AIR HEADER (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

_____ACCEPTABLE

POTENTIALLY
-UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82 VERIFIED/DATE

System	No.	Q	

BUILDING:

PRIMARY AUXILIARY BUILDING

FIRE ZONE:

63A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-239-1

PHOTOGRAPH NO.: M425

BACKGROUND NO.: 8-43

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-RCV-018 (BLACK ARROW ON THE BOTTOM CENTER)

(AIR OPERT)

SOURCE: 2"-261 (BLACK ARROW ON THE CENTER 4TH FROM THE BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

J L Rodriguez 8/9/82 INTERACTION ENGINEER/DATE

9/9/82 W A Griswold

VERIFIED/DATE

Ebasco Services Incorporated

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BUILDING: PR	IMARY AUXILIARY BUILDING	
FIRE ZONE: 63	BA	
LOCATION WITHIN	FIRE ZONE:	
POTENTIAL INTER	ACTION NO.: V-8-239-2	
PHOTOGRAPH NO.:	M426	
BACKGROUND NO.:	8-43	•
IDENTIFICATION	OF INTERACTION COMPONENTS:	
	2"-RCV-018 (BLACK ARROW ON THE BOTTOM RIGHT) (AIR OPERT)	
SOURCE:	1"-261 (BLACK ARROW ON THE LEFT 2ND FROM THE BOTTOM)	
DESCRIPTION OF 1	POSTULATED INTERACTION:	
SOURCE FALI	LS ON TARGET.	
EVALUATION OF I		
EVALUATION	NOTE NO: 3	
	•	
X	ACCEPTABLE	POTENTIALLYUNACCEPTABLE

Ebasco Services Incorporated

W A Griswold

9/9/82

VERIFIED/DATE

BUILDING: PRI	IMARY AUXILIARY BUILDING	
FIRE ZONE: 63A	A	
LOCATION WITHIN	FIRE ZONE:	
POTENTIAL INTER	RACTION NO.: V-8-239-3	
PHOTOGRAPH NO.:	M426	
BACKGROUND NO.:	8–43	
IDENTIFICATION	OF INTERACTION COMPONENTS:	
	2"-RCV-018 (BLACK ARROW ON THE BOTTOM RIGHT) (AIR OPERT)	
SOURCE:	1"-191 (BLACK ARROW ON THE LEFT 3RD FROM THE BOTTOM)	
	POSTULATED INTERACTION: S ON TARGET.	
EVALUATION OF I	NTERACTION:	
EVALUATION	NOTE NO: 3	
X	ACCEPTABLE	POTENTIALLY UNACCEPTABLE
J L Rodriguez		9/82
INTERACTION ENG	INEER/DATE VERIFIED/DA	I.E.

Ebasco Services Incorporated

VERIFIED/DATE

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 63A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-239-4

PHOTOGRAPH NO.: M425

BACKGROUND NO.: 8-43

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-RCV-018 (BLACK ARROW ON THE BOTTOM CENTER)

(AIR OPERT)

SOURCE: 2"-WASTE DISPOSAL LINE (BLACK ARROW ON THE TOP CENTER)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET .

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/9/82 W A Griswold 9/9/82
INTERACTION ENGINEER/DATE VERIFIED/DATE

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 63A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-239-5

PHOTOGRAPH NO.: M425

BACKGROUND NO.: 8-43

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-RCV-018 (BLACK ARROW ON THE BOTTOM CENTER)

(AIR OPERT)

SOURCE: 1"-262 (BLACK ARROW ON THE TOP LEFT)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE ____

POTENTIALLY -UNACCEPTABLE

J L Rodriguez 8/9/8
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

BUILDING: PRIM	MARY AUXILIARY BUILDING		
FIRE ZONE: 63A			
LOCATION WITHIN	FIRE ZONE:		
POTENTIAL INTER	ACTION NO.: V-8-239-6		•
PHOTOGRAPH NO.:	M425		
BACKGROUND NO.:	8-43		
		·	
IDENTIFICATION	OF INTERACTION COMPONENTS:		
TARGET:	2"-RCV-018 (BLACK ARROW ON THE (AIR OPERT)	BOTTOM CENTER)	
SOURCE:	1"-VLV-1780 (BLACK ARROW 2ND F INDTRUMENTATION)		VLV BEHIND
	POSTULATED INTERACTION: LS ON TARGET.		
	•	-	
EVALUATION OF I	NTERACTION:		
EVALUATION	NOTE NO: 3		
X	ACCEPTABLE		POTENTIALLY UNACCEPTABLI
J L Rodriguez	8/9/82	W A Griswold	9/9/82
INTERACTION ENGI	INEER / DATE	VERII	FIED/DATE

System	No.	8	

BUILDING: PRIMARY AUXILIARY BUILDING
FIRE ZONE: 63A
LOCATION WITHIN FIRE ZONE:
POTENTIAL INTERACTION NO.: V-8-239-7
PHOTOGRAPH NO.: M425
BACKGROUND NO.: 8-43
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: 2"-RCV-018 (BLACK ARROW ON THE BOTTOM CENTER) (AIR OPERT)
SOURCE: 1"-VLV-1779 (BLACK ARROW 2ND FROM THE TOP LEFT VLV BEHIND INSTRUMENTATION)
DESCRIPTION OF POSTULATED INTERACTION: SOURCE FALLS ON TARGET.
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 3
X ACCEPTABLE POTENTIALLY UNACCEPTABL
J L Rodriguez 8/9/82 W A Griswold 9/9/82 INTERACTION ENGINEER/DATE VERIFIED/DATE

BUILDING: PRIMARY AUXILIARY BUILDING	
FIRE ZONE: 63A	
LOCATION WITHIN FIRE ZONE:	
POTENTIAL INTERACTION NO.: V-8-240-1	•
PHOTOGRAPH NO.: M425	
BACKGROUND NO.: 8-43	•
IDENTIFICATION OF INTERACTION COMPONENTS:	•
TARGET: 2"-WD-1785 (BLACK ARROW ON THE	CENTER 3RD FROM THE BOTTOM)
SOURCE: 2"-261 (BLACK ARROW ON THE CENT	ER 4TH FROM THE BOTTOM)
DESCRIPTION OF POSTULATED INTERACTION:	•
SOURCE FALLS ON TARGET.	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 3	•
•	
X ACCEPTABLE	POTENTIALLY ——UNACCEPTABLE
J L Rodriguez 8/9/82	W A Griswold 9/9/82
INTERACTION ENGINEER / DATE	VERIFIED/DATE

INTERACTION ENGINEER/DATE		IED/DATE
J L Rodriguez 8/9/82	W A Griswold	
ACCEPTABLE		POTENTIALLYUNACCEPTABLE
EVALUATION NOTE NO: 3		
EVALUATION OF INTERACTION:		
DESCRIPTION OF POSTULATED INTERACTION: SOURCE FALLS ON TARGET.	•	
SOURCE: 2"-WASTE DISPOSAL LINE (BLACK	ARROW ON THE TOP (CENTER)
TARGET: 2"-WD-1785 (BLACK ARROW ON THE	CENTER 3RD FROM	ГНЕ ВОТТОМ)
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: 8-43	er .	
PHOTOGRAPH NO.: M425		
POTENTIAL INTERACTION NO.: V-8-240-2		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 63A		
BUILDING: PRIMARY AUXILIARY BUILDING		

,
ENTER 3RD FROM THE BOTTOM)
EFT)
POTENTIALLY ————UNACCEPTABLE
VA Griswold 9/9/82 VERIFIED/DATE .

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 63A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-240-4

PHOTOGRAPH NO.: M425

BACKGROUND NO.: 8-43

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-WD-1785 (BLACK ARROW ON THE CENTER 3RD FROM THE BOTTOM)

SOURCE: 1"-VLV-1780 (BLACK ARROW 2ND FROM THE TOP LEFT) VLV BEHIND

INSTRUMENTATION)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/9/82 W A Griswold 9/9/82
INTERACTION ENGINEER/DATE VERIFIED/DATE

BUILDING:	PRIMARY AUXILIARY BUILDING
FIRE ZONE:	63A
LOCATION WIT	HIN FIRE ZONE:
POTENTIAL IN	TERACTION NO.: V-8-240-5
PHOTOGRAPH N	M425
BACKGROUND N	70.: 8-43
IDENTIFICATI	ON OF INTERACTION COMPONENTS:
TARGET:	2"-WD-1785 (BLACK ARROW ON THE CENTER 3RD FROM THE BOTTOM)
SOURCE:	1"-VLV-1779 (BLACK ARROW 2ND FROM THE TOP LEFT VLV BEHIND INSTRUMENTATION)
DESCRIPTION	OF POSTULATED INTERACTION:
SOURCE	FALLS ON TARGET
EVALUATION O	F INTERACTION:
EVALUAI	ION NOTE NO: 3
	•
X	ACCEPTABLE POTENTIALLY UNACCEPTABLE
•	UNACCEPTABLE
J L Rodrigue	
INTERACTION :	ENGINEER / DATE VERIFIED / DATE

Postulated Failure Modes

MECHANICAL FAILURES

- M 1 Ruptured Pipe or Tube
- M 2 Crimped or Collapsed Pipe or Tube
- M 3 Loss of Function (Pump, Fan, Blowers etc.)
- M 4 Loss of Valve Motive Power
- M 5 Failure of or damage to Valve Actuating Mechanism
- M 6 Other (Explain)

ELECTRICAL FAILURES

- E 1 Open Circuit
- E 2 Short Circuit
- E 3 Other (Explain)

INSTRUMENTATION & CONTROL FAILURES

- C 1 Fail High
- C 2 Fail Low
- C 3 Fail Open
- C 4 Fail Closed
- C 5 Loss of Motive Power
- C 6 Other (Explain)

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY FMEA PREPARATION

SYSTEM NO	8		
SYSTEM NAME _	Service Water		
			
FMEA CATEGORY		NON-CONNECTED	
		INTERCONNECTED	X
		•	
PREPARED BY/I	-5-18-83 DATE		
	5/3//62	147 Anicusold 6: 1682	,

Ebasco Services Incorporated

VERIFIED BY/DATE

CHECKED BY/DATE

FMEA NUMBER: 8-M-1A

Interaction Number(s): 8-M-1

Fire Zone: N/A

Target Component(s)
Number, Description & Function:

8"-SWN-5 Normally closed butterfly valve. Located off nuclear service water line number 408. Valve is opened if conventional service water pumps 31, 32, and 33 are lost. Valve serves as a boundary between Categories I and III.

Postulated Failure Mode(s) and Evaluation:

M-1-(A) A break in the non-seismic piping downstream of the valve will not affect the service water system since, the valve is normally closed.

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

L Cerra 5/18/83 T P Ruggiero 5/31/83
EVALUATING ENGINEER/DATE CHECKED/DATE

FMEA NUMBER: 8-M-2A

Interaction Number(s): 8-M-2

Fire Zone: N/A

Target Component(s)
Number, Description & Function:

8"-SWN-4 Normally open butterfly valve. Located off conventional service water line number 409. Conventional service water pumps are backup for nuclear service water pumps. Valve is the category boundary between Categories I and III.

Postulated Failure Mode(s) and Evaluation:

M-1-(P) A break downstream of the valve would not be indicated in the control room, nor would the valve be able to be remotely or automatically closed. Should the conventional pumps replace the nuclear service water pumps available flow may not be sufficient.

Acceptable $\frac{X}{Potentially\ Unacceptable/Safety\ Function\ Affected}$

L Cerra 5/18/83
EVALUATING ENGINEER/DATE

T P Ruggiero 5/31/83
CHECKED/DATE

FMEA NUMBER: 8-M-3A

Interaction Number(s): 8-M-3

Fire Zone: N/A

Target Component(s)
Number, Description & Function:

16" FCV-1111 Control valve for 16" header to non-essential services. May be fully open or closed. Valve position depends on service water pump operation. Valve and piping are Category I, but are located in a valve pit which contains non-seismic piping.

Postulated Failure Mode(s) and Evaluation:

M-1-(P) A break or rupture in the line would allow undetected flow from the service water system.

Acceptable $X / 1 () 2 (\dot{X}) 3 () 4 (X)$ Potentially Unacceptable/Safety Function Affected

L Cerra 5/18/83
EVALUATING ENGINEER/DATE

T P Ruggiero 5/31/83 CHECKED/DATE

FMEA NUMBER: 8-M-4A

Interaction Number(s): 8-M-4

Fire Zone: N/A

Target Component(s)
Number, Description & Function:

16-FCV-1112

Refer to FMEA 8-M-3

Postulated Failure Mode(s) and Evaluation:

M-1-(P) Refer to FMEA 8-M-3

x / 1 (X) 2 (X) 3 () 4 (X)

representable Potentially Unacceptable/Safety Function Affected

Acceptable

L Cerra 5/18/83
EVALUATING ENGINEER/DATE

T P Ruggiero 5/31/83 CHECKED/DATE

FMEA NUMBER: 8-M-5A

Interaction Number(s): 8-M-5

Fire Zone: N/A

Target Component(s)
Number, Description & Function:

10" - SWN-6 Butterfly valve to essential conventional plant services from nuclear service water pumps discharge. Valve and piping is Category I, however, line is located in a valve pit which has non-seismic piping in it.

Postulated Failure Mode(s) and Evaluation:

M-1-(P) An undetected loss of service water could occur should a seismic event collapse portions of the non-seismic structure and rupture the line subject valve isolates. The valve cannot be automatically or remotely operated.

Acceptable X / 1 () 2 (X) 3 () 4 (X)
Potentially Unacceptable/Safety Function Affected

L Cerra 5/18/83
EVALUATING ENGINEER/DATE

T P Ruggiero 5/31/83 CHECKED/DATE

FMEA NUMBER: 8-M-6A

Interaction Number(s): 8-M-6

Fire Zone: N/A

Target Component(s)
Number, Description & Function:

10"-SWN-7 Butterfly valve to essential conventional plant services from nuclear pumps discharge line. Valve is used to allow conventional service water pumps supply to replace nuclear pumps.

Postulated Failure Mode(s) and Evaluation:

M-1-(P) Refer to interconnected FMEA 8-M-15.

X / 1 (X) 2 (X) 3 () 4 (X)

Acceptable Potentially Unacceptable/Safety Function Affected

L Cerra 5/18/83
EVALUATING ENGINEER/DATE

T P Ruggiero 5/31/83 CHECKED/DATE

FMEA NUMBER: 8-M-7A

Interaction Number(s): 8-M-9

Fire Zone: N/A

Target Component(s)
Number, Description & Function:

6"-SWN-53 Gate valve on blowdown tank outlet. Valve is normally open and hand operated. Valve is class break for Category I and III piping.

Postulated Failure Mode(s) and Evaluation:

M-l-(A) Valve is located on a branch to the discharge header of service water header, loss of the line will not require isolation, or affect service water requirements.

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

L Cerra 5/18/83 T P Ruggiero 5/31/83
EVALUATING ENGINEER/DATE CHECKED/DATE

FMEA NUMBER: 8-M-8A

Interaction Number(s): 8-M-10

Fire Zone: N/A

Target Component(s)
Number, Description & Function:

6"-SWN-54 Gate valve on drain line from blowdown tank. Normally closed valve, also serves as class break between Category I and III.

Postulated Failure Mode(s) and Evaluation:

M-1-(A) Refer to interconnected FMEA 8-M-7A

X / Acceptable Potentially Unacceptable/

/1()2()3()4()

Potentially Unacceptable/Safety Function Affected

L Cerra 5/18/83

EVALUATING ENGINEER/DATE

T P Ruggiero 5/31/83

CHECKED/DATE

FMEA NUMBER: 8-M-9A

Interaction Number(s): 8-M-11

Fire Zone: N/A

Target Component(s) Number, Description & Function:

> 2"-WD-1785 Normally open diaphragm valve on discharge line from waste condensate pumps. Line leads into service water discharge header.

Postulated Failure Mode(s) and Evaluation:

M-1-(A)Refer to interconnected to FMEA 8-M-7A. Evaluation similar to

Acceptable

/1()2()3()4() Potentially Unacceptable/Safety Function Affected

L Cerra 5/18/83 EVALUATING ENGINEER/DATE T P Ruggiero 5/31/83

CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY FMEA PREPARATION

SYSTEM NO	8		
SYSTEM NAME _	Service Water System	n	
_			
FMEA CATEGORY		NON-CONNECTED	X
		INTERCONNECTED	
Dy & Chop PREPARED BY/	2/25/83 DATE		
Thygien M. CHECKED BY	<u> 3/λ5/83</u> /DATE	WA Griswold 4.25.8 VERIFIED BY/DATE	3
	, DAIL	- VERIFIED BI/DATE	

Ebasco Services Incorporated

FMEA NUMBER: 8-M-1

Interaction Number(s): L-8-102-7

Fire Zone: 79A

Target Component(s)
Number, Description & Function:

6"-SWN-390; Line from Blowdown Tank #31 to S W Return Header Line #405. Return Line to Discharge Channel.

Postulated Failure Mode(s) and Evaluation:

*M-1-(A)

Line has no safety function.

M-2-(A)

* Failure of source (Blowdown Tank #31) & rupture of target will cause flooding in the Blowdown Tank area.

Acceptable

/ 1 () 2 () 3 () 4 ()

Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83

EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83

CHECKED/DATE

FMEA NUMBER: 8-M-2

Interaction Number(s): L-8-103-7

Fire Zone: 79A

Target Component(s)
Number, Description & Function:

3"-SWN-697; Line from Blowdown Tank to Discharge Line #390. Tank Clean-out

Postulated Failure Mode(s) and Evaluation:

M-1-(A)

Target Line has no safety function.

M-2-(A)

X Acceptable /1()2()3()4()

Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83

EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83

CHECKED/DATE

FMEA NUMBER: 8-M-3

Interaction Number(s): L-8-116-1

L-8-116-2

Fire Zone: 1 (PAB)

Target Component(s)
Number, Description & Function:

3/4" Sampling Line.

Postulated Failure Mode(s) and Evaluation:

M-1-(A)

Target Line has no safety function. Line is for sampling off the discharge line 24" #405 which discharges to the channel.

M-2-(A)

Acceptable

/1()2()3()4()

Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83

EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83

FMEA NUMBER: 8-M-4

Interaction Number(s): L-8-119-2

L-8-119-3

Fire Zone: 68A

Target Component(s)
Number, Description & Function:

2"-WD-263; Line from Waste Condensate Pumps (via Line #261) to Line #405 leading to discharge channel.

Postulated Failure Mode(s) and Evaluation:

M-1-(A)

Target performs no safety function. Target line is a discharge line leading ultimately to the discharge channel.

M-2-(A)

X Acceptable /1()2()3()4()

Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83

EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83

FMEA NUMBER: 8-M-5

Interaction Number(s): L-8-123-3

L-8-123-4

Fire Zone: 17A

Target Component(s)

Number, Description & Function:

3/4" Sampling Line (From S W Pumps via lines #407 & 411 to the sample Cooler. Valve PCV 1271 is on the target line).

Postulated Failure Mode(s) and Evaluation:

M-1-(A)

Target performs no safety function. (Target line is a sampling line, leading to sampling Cooler inlet).

M-2-(A)

X Acceptable / 1 () 2 () 3 () 4 ()

Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83

EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83

FMEA NUMBER: 8-M-6

Interaction Number(s): L-8-206-2

Fire Zone: 62A

Target Component(s)
Number, Description & Function:

2"-SWN-11; From S W Headers Line #408 & 409 to discharge header #405 via mixing nozzle & discharge line 18" #406.

Postulated Failure Mode(s) and Evaluation:

M-1-(A)

The target discharges into the S W Discharge header (to Discharge Channel). It performs no safety function.

M-2-(A)

X Acceptable / 1 () 2 () 3 () 4 ()

Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83

EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83

FMEA NUMBER: 8-M-7

Interaction Number(s): L-8-215-2

Fire Zone: Intake Str (S W Valve Pit)

Target Component(s)
Number, Description & Function:

14"-SWN-1083 Line from S W Pump #33 discharge to Line #409.

Postulated Failure Mode(s) and Evaluation:

M-1-(P)

Interaction results in loss of pump #33 which affects S W System Capability.

M-2-(P)

Acceptable X / 1 (X) 2 (X) 3 (X) 4 (X)

Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-8

Interaction Number(s): L-8-216-2

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

14"-SWN-1082; Line from S W Pump #32 discharge to Line #409 (24" S W Line).

Postulated Failure Mode(s) and Evaluation:

M-1-(P)

Interaction will result in loss of Pump #32 which affects S W System Capability.

M-2-(P)

Acceptable $\frac{X}{Potentially\ Unacceptable/Safety\ Function\ Affected}$

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-9

Interaction Number(s): L-8-218-3

Fire Zone: S W Valve Pit

Target Component(s)

Number, Description & Function:

2"-SWN-1083; Strainer backwash line for S W pump #33 strainer.

Postulated Failure Mode(s) and Evaluation:

- M-1-(A) Pipe break results in no adverse effect on safety function. Backwash water from target line will spill instead of normally discharging to 8" screenwash line.
- M-2-(A) Crimping of target line results in no immediate adverse effect on safety function. (Automatic backwashing capability of the strainers will be affected. However, sufficient time is postulated to permit backwashing the strainers).

X	/1()2()3()4()
Acceptable	Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-10

Interaction Number(s): L-8-219-3

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-1082; Strainer backwash line for S W Pump #32 Strainer.

Postulated Failure Mode(s) and Evaluation:

SEE FMEA 8-M-9

Acceptable

/1()2()3()4()

Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83

EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83

FMEA NUMBER: 8-M-11

Interaction Number(s): L-8-220-3

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-1081; Strainer backwash line for S W Pump #31 Strainer.

Postulated Failure Mode(s) and Evaluation:

SEE FMEA 8-M-9

____X Acceptable /1()2()3()4()

Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83

EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83

FMEA NUMBER: 8-M-12

Interaction Number(s): L-8-222-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

14"-SWN-1085; Line from S W Pump #35 Discharge to S W Header 24" #408.

Postulated Failure Mode(s) and Evaluation:

P-1-(P)

Interaction will result in loss of Pump #35 which affects S W System Capability.

P-2-(P)

R Chopra 2/25/83

EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83

FMEA NUMBER: 8-M-13

Interaction Number(s): L-8-224-3

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-1084; Strainer backwash line for S W Pump #34 Strainer.

Postulated Failure Mode(s) and Evaluation:

SEE FMEA 8-M-9

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-14

Interaction Number(s): L-8-225-3

Fire Zone: S W Valve Pit

Target Component(s) Number, Description & Function:

2"-SWN-1085; Strainer backwash line for S W Pump #35 Strainer.

Postulated Failure Mode(s) and Evaluation:

SEE FMEA 8-M-9

Acceptable

 $\frac{\ \ \, /\ 1\ (\)\ 2\ (\)\ 3\ (\)\ 4\ (\)}{Potentially\ Unacceptable/Safety\ Function\ Affected}$

R Chopra 2/25/83

EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83

FMEA NUMBER: 8-M-15

Interaction Number(s): L-8-226-3

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-1086; Strainer backwash line for S W Pump #36 Strainer.

Postulated Failure Mode(s) and Evaluation:

SEE FMEA 8-M-9 .

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83

T P Ruggiero 3/25/83 CHECKED/DATE

EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-16

Interaction Number(s): L-8-227-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

3"-SWN-1081; Automatic Vent Line off S W Pump #31 discharge line 14" #1081.

Postulated Failure Mode(s) and Evaluation:

- M-1-(P) Results in adverse effect on S W System capability due to loss of S W From 14" line.
- M-2-(A) No effect on S W System safety function since there is no loss of fluid and the target performs no safety function.

Acceptable X / 1 (X) 2 (X) 3 (X) 4 (X)
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

System No. 8

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 SYSTEMS INTERACTION STUDY FAILURE MODES AND EFFECTS ANALYSIS OF POTENTIALLY UNACCEPTABLE INTERACTIONS

FMEA NUMBER: 8-M-17

Interaction Number(s): L-8-228-1

Fire Zone: S W Valve Pit

Target Component(s)

Number, Description & Function:

3"-SWN-1082; Automatic Vent Line off S W Pump #32 discharge line 14" #1082.

Postulated Failure Mode(s) and Evaluation:

SEE FMEA # 8-M-16

Acceptable X / 1 (X) 2 (X) 3 (X) 4 (X)
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-18

Interaction Number(s): L-8-229-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

3"-SWN-1083; 3" Automatic Vent Line off S W Pump #33 discharge header 14" #1083.

Postulated Failure Mode(s) and Evaluation:

SEE FMEA 8-M-16

Acceptable X / 1 (X) 2 (X) 3 (X) 4 (X)

Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-19

Interaction Number(s): L-8-230-1

Fire Zone: S W Valve Pit

Target Component(s) Number, Description & Function:

3"-SWN-1084; Automatic Vent Line off S W Pump #34 discharge line 14" #1084.

Postulated Failure Mode(s) and Evaluation:

SEE FMEA 8-M-16

/ 1 (X) 2 (X) 3 (X) 4 (X) Potentially Unacceptable/Safety Function Affected Acceptable

R Chopra 2/25/83

EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-20

Interaction Number(s): L-8-231-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

3"-SWN-1085; Automatic Vent Line off S W Pump #35 discharge line 14" #1085.

Postulated Failure Mode(s) and Evaluation:

EVALUATING ENGINEER/DATE

SEE FMEA 8-M-16

Acceptable

X / 1 (X) 2 (X) 3 (X) 4 (X)
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83

T P Ruggiero 3/25/83

CHECKED/DATE

•

FMEA NUMBER: 8-M-21

Interaction Number(s): L-8-232-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

3"-SWN-1086; Automatic Vent Line off S W Pump #36 discharge line 14" #1086.

Postulated Failure Mode(s) and Evaluation:

SEE FMEA 8-M-16

X / 1 (X) 2 (X) 3 (X) 4 (X)

Acceptable Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83 T P Ruggiero 3/25/83

EVALUATING ENGINEER/DATE CHECKED/DATE

FMEA NUMBER: 8-M-22

Interaction Number(s): L-8-248-2

Fire Zone: 36A (Valve Room)

Target Component(s)
Number, Description & Function:

3"-SWN-1223; From S W Pumps (via lines 409 & 1093) to Control Bldg Air Conditioner #31 Condenser.

Postulated Failure Mode(s) and Evaluation:

M-1-(P)

Control Room habitability affected by possible loss of service water.

M-2-(P)

R Chopra 2/25/83

EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-23

Interaction Number(s): L-8-249-2

Fire Zone: 36A (Valve Room)

Target Component(s)
Number, Description & Function:

3"-SWN-1224; Line from S W Pumps (via lines 408 & 1099) to Control Bldg Air Cond #32 Condenser.

Postulated Failure Mode(s) and Evaluation:

M-1-(P)

Control Room Habitability affected by possible loss of service water.

M-2-(P)

Acceptable $\frac{X}{Potentially Unacceptable/Safety Function Affected}$

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83

FMEA NUMBER: 8-M-24

Interaction Number(s): V-8-11-7

Fire Zone: 79A

Target Component(s) Number, Description & Function:

6"-SWN-53; 6" Valve on line #390 which discharges to the discharge header 24" #405 leading to discharge channel.

Postulated Failure Mode(s) and Evaluation:

M-5-(A) Valve is hand operated, normally open and performs no safety function.

/ 1 () 2 () 3 () 4 () Acceptable Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83 T P Ruggiero 3/25/83 EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-25

Interaction Number(s): V-8-12-7

Fire Zone: 79A

Target Component(s)

Number, Description & Function:

3"-SWN-54; Valve, normally closed, on line 3"-697 (runs from blowdown tank to Discharge line #390 for Tank Cleanout).

Postulated Failure Mode(s) and Evaluation:

M-4-(A)

Valve and related line #697 have no safety function.

M-5-(A)

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83

EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-26

Interaction Number(s): V-8-17-1

Fire Zone: 1

Target Component(s)
Number, Description & Function:

PCV-1271: 3/4" SWN Valve, normally open, on 3/4" sampling line from S W Pumps via lines 407 & 411 to sample cooler.

Postulated Failure Mode(s) and Evaluation:

M-(5)-(A) Target performs no safety function.

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-27

Interaction Number(s): V-8-18-2

Fire Zone: 17A

Target Component(s)

Number, Description & Function:

3/4"-SWN-37; Inst (PI1277) Conn Valve. Valve on PI instrument line off S W line 18" #407 serving component cooling heat exhanger #32. Break of the line is also postulated.

Postulated Failure Mode(s) and Evaluation:

- M-1(P) 3/4" line break (off an 18" S W Line) could be potentially unacceptable since it would result in partial loss of fluid from 18" S W line. Comp cooling function affected.
- M-2(A) No loss of fluid. No safety function affected.
- M-5(A) No loss of fluid. No safety function affected.

	X	/	1 ()	2 () 3	(X) 4 ()
Acceptable	Potentially	Unacceptable/	Safety	Function	Affected
R Chopra 2/25/83	·	T P Ru	ggiero	3/25/83	
EVALUATING ENGINEER/DATE		C	HECKED/	DATE	

FMEA NUMBER: 8-M-28

Interaction Number(s): V-8-45-1

V - 8 - 45 - 2

Fire Zone: Yard

Target Component(s)

Number, Description & Function:

1/2" Root Valves (2 valves) on 1/2" line off the Conventional Plant Services line 16" #1219 (which is off S W line 24" #409).

Postulated Failure Mode(s) and Evaluation:

M-1-(A) Based on engineering judgement, the loss of Conventional Service Water from 1/2" line described above would not have an adverse effect on any safety function since the target line performs no safety function and sufficient S W will still be available should it be needed.

M-2-(A)

Line & valve have no safety function. No loss of fluid.

M-5-(A)

X	/1()2()3()4()
Acceptable	Potentially Unacceptable/Safety Function Affected
2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

R Chopra 2/25/83

EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-29

Interaction Number(s): V-8-48-1

V-8-48-2

Fire Zone: Yard; Valve pit for Turbine Oil Coolers etc

Target Component(s)

Number, Description & Function:

1/2" Root Valves (2 Valves); On 1/2" line off the Conventional Plant Services Line 16" #1220 (which is off S W Line 24" #408).

Postulated Failure Mode(s) and Evaluation:

SEE FMEA 8-M-28

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83

EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-30

Interaction Number(s): V-8-66-1

V - 8 - 66 - 2

Fire Zone: 59A

Target Component(s)

Number, Description & Function:

1/2"-SWN-72 (Instr Conn Valves, quantity: 2)

Valves on instrument FT-1125 lines; on discharge side of Cont Recirc Fan #35 Coil cooling line discharging to Discharge Channel thru line 18" #406. Instr line break is also considered.

Postulated Failure Mode(s) and Evaluation:

M-1-(A)

Target valves and line perform no safety function. Loss of water permissible since the lost water normally discharges to the discharge channel.

M-5-(A)

/1()2()3()4() X Acceptable Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83 EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-31

Interaction Number(s): V-8-113-1

Fire Zone: 62A

Target Component(s)

Number, Description & Function:

2"-SWN-60; Valve on S W line 2" #11 off S W line 18" #409. Leads to inlet of mixing nozzles. Provides cooling water for mixing with the recirc fans cooling discharge water.

Postulated Failure Mode(s) and Evaluation:

M-5-(A) Valve performs no safety function. Flow through valve discharges to the discharge channel.

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-32

Interaction Number(s): V-8-123-1

Fire Zone: Intake Str (SW Valve Pit)

Target Component(s)
Number, Description & Function:

14" Strainer #32 for S W Pump #32

Postulated Failure Mode(s) and Evaluation:

M-1-(P)

Loss of pump #32 function. S W availability affected.

M-2-(P)

Acceptable X / 1 (X) 2 (X) 3 (X) 4 (X)
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83

EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-33

Interaction Number(s): V-8-128-3

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2-SWN-PCV-1207 (SOV-1207) Valve on the Pump Discharge Strainer Backwash Line.

Postulated Failure Mode(s) and Evaluation:

M-4-(A) Following interaction, valve in open position results in no adverse M-5-(A) effect on safety function. Valve in closed position will also have no immediate effect on safety function. (Automatic backwashing capability of the strainers will be affected). However sufficient time is postulated to permit backwashing the strainer.

. X	. / 1 () 2 () 3 () 4 ()
Acceptable	Potentially Unacceptable/Safety Function Affected
R Chopra 2/25/83	T P Ruggiero 3/25/83
EVALUATING ENGINEER/DATE	CHECKED/DATE

FMEA NUMBER: 8-M-34

Interaction Number(s): V-8-129-3

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2-SWN-64 2" Valve, normally open, on S W Pump Strainer Backwash Line.

Postulated Failure Mode(s) and Evaluation:

M-5-(A) Interaction results in no adverse effect on safety, since the valve performs no safety function.

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-35

Interaction Number(s): V-8-130-3

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2-SWN-65 2" Valve on S W Pump Strainer Backwash Line.

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-34

Acceptable Potentially U

/ 1 () 2 () 3 () 4 ()

Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-36

Interaction Number(s): V-8-131-3

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-PCV-1206 (SOV-1206) Valve on Pump #32 Strainer backwash line.

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-34

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83

FMEA NUMBER: 8-M-37

Interaction Number(s): V-8-132-3

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-64 2" Normally Open Valve on S W Pump Strainer Backwash Line.

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-34

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-38

Interaction Number(s): V-8-133-3

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-65 2" Normally Open Valve on S W Pump Strainer Backwash Line.

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-34

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83 T P Ruggiero 3/25/83
EVALUATING ENGINEER/DATE CHECKED/DATE

FMEA NUMBER: 8-M-39

Interaction Number(s): V-8-134-2

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-PCV-1205 (SOV-1205) Valve on Pump #31 Strainer Backwash Line.

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-33

Ac ceptable

/1 () 2 () 3 () 4 ()

Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83

FMEA NUMBER: 8-M-40

Interaction Number(s): V-8-135-2

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-64 2" Normally Open Valve on S W Pump Strainer Backwash Line.

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-34

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83

EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-41

Interaction Number(s): V-8-136-2

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-65 2" Normally Open Valve on S W Pump Strainer Backwash Line.

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-34

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83

EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-42

Interaction Number(s): V-8-146-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-PCV-1208 (SOV-1208) Valve on Pump #34 Strainer Backwash Line.

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-33

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-43

Interaction Number(s): V-8-147-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-64 2" Normally Open Valve on S W Pump Strainer Backwash Line.

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-34

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83 T P Ruggs
EVALUATING ENGINEER/DATE CHECKED/I

T P Ruggiero 3/25/83 CHECKED/DATE

Ebasco Services Incorporated

FMEA NUMBER: 8-M-44

Interaction Number(s): V-8-148-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-65 2" Normally Open Valve on S W Pump Strainer Backwash Line.

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-34

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83 T P Ruggiero 3/25/83
EVALUATING ENGINEER/DATE CHECKED/DATE

FMEA NUMBER: 8-M-45

Interaction Number(s): V-8-149-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-PCV-1209 (SOV-1209) Valve on Pump #35 Strainer Backwash Line.

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-33

X Acceptable / 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83

EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83

FMEA NUMBER: 8-M-46

Interaction Number(s): V-8-150-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-64 Normally Open Valve on S W Pump Strainer Backwash Line.

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-34

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-47

Interaction Number(s): V-8-151-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-65 Normally Open on S W Pump Strainer Backwash Line.

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-34

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-48

Interaction Number(s): V-8-152-1

Fire Zone: S W Valve Pit

Target Component(s) Number, Description & Function:

2"-SWN-PCV-1210 (SOV-1210) Valve on Pump #36 Strainer Backwash Line.

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-33

/ 1 () 2 () 3 () 4 () Acceptable

Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83

EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-49

Interaction Number(s): V-8-153-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-64 Normally Open Valve on S W Pump Strainer Backwash Line.

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-34

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83

EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-50

Interaction Number(s): V-8-154-1

Fire Zone: S W Valve Pit

Target Component(s) Number, Description & Function:

2"-SWN-65 Normally Open Valve on S W Pump Strainer Backwash Line.

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-34

/ 1 () 2 () 3 () 4 () Potentially Unacceptable/Safety Function Affected Acceptable

R Chopra 2/25/83

EVALUATING ENGINEER/DATE

3/25/83 T P Ruggiero

FMEA NUMBER: 8-M-51

Interaction Number(s): V-8-155-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

3"-SWN-9 3" Vacuum Breaker Valve off 14" S W Header 1081.

Postulated Failure Mode(s) and Evaluation:

M-5-(A) Valve mechanism is internal to the valve hence valve function is postulated to be unaffected.

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-52

Interaction Number(s): V-8-156-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

1/2"-SWN-58 Normally Open Valve, on Instr Conn Line off 3" Automatic Vent Valve Line (off 14" S W Header). Rupture of 1/2" Line also considered.

Postulated Failure Mode(s) and Evaluation:

M-5-(A) System Safety Function not effected by malfunction of Instr Conn Valve M-2-(A) or

M-1-(P) Loss of Service Water from ruptured line occurs.

Acceptable X / 1 (X) 2 (X) 3 (X) 4 (X)
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83

EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-53

Interaction Number(s): V-8-157-1

Fire Zone: S W Valve Pit

Target Component(s) Number, Description & Function:

3"-SWN-9 Automatic Vent Valve for line 1082.

Postulated Failure Mode(s) and Evaluation:

M-5-(A) See FMEA 8-M-51.

/1()2()3()4() Acceptable Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83 EVALUATING ENGINEER/DATE T P Ruggiero CHECKED/DATE

3/25/83

FMEA NUMBER: 8-M-54

Interaction Number(s): V-8-158-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

1/2"-SWN-58 Normally Open Valve on Instr Conn Line off 3" Automatic Vent Valve Line (off 14" S W Header) rupture of 1/2" line also considered.

Postulated Failure Mode(s) and Evaluation:

See FMEA 8-M-52

Acceptable

X / 1 (X) 2 (X) 3 (X) 4 (X)

Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

3/25/83

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FMEA NUMBER: 8-M-55

Interaction Number(s): V-8-159-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

3"-SWN-9 3" Automatic Vent Valve and Inlet Valve off 14" S W Header 1083.

Postulated Failure Mode(s) and Evaluation:

M-5-(A) See FMEA 8-17-51.

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83 T P Ruggiero
EVALUATING ENGINEER/DATE CHECKED/DATE

FMEA NUMBER: 8-M-56

Interaction Number(s): V-8-160-1

V-8-160-2

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

1/2"-SWN-58 Normally Open Valve, on Instr Conn Line off 3" Automatic Vent Valve Line (off 14" S W Header) rupture of 1/2" Line also considered.

Postulated Failure Mode(s) and Evaluation:

See FMEA 8-M-52

Acceptable X / 1 (X) 2 (X) 3 (X) 4 (X)
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83 EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-57

Interaction Number(s): V-8-161-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

3"-SWN-9 3" Automatic Vent Valve off 14" S W Header 1084.

Postulated Failure Mode(s) and Evaluation:

See FMEA 8-M-51

Acceptable Pote

/ 1 () 2 () 3 () 4 ()

Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-58

Interaction Number(s): V-8-162-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

1/2"-SWN-58 Normally Open Valve, on Instr Conn Line off 3" Automatic Vent Valve Line (off 14" S W Header) rupture of 1/2" Line also considered.

Postulated Failure Mode(s) and Evaluation:

See FMEA 8-M-52

Acceptable X / 1 (X) 2 (X) 3 (X) 4 (X)
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-59

Interaction Number(s): V-8-163-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

3"-SWN-9 3" Automatic Vent Valve off 14" S W Header 1085.

Postulated Failure Mode(s) and Evaluation:

See FMEA 8-M-51

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-60

Interaction Number(s): V-8-164-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

1/2"-SWN-58 Normally Open Valve, on Instr Conn Line off 3" Automatic Vent Valve Line (off 14" S W Header) rupture of 1/2" Line also considered.

Postulated Failure Mode(s) and Evaluation:

See FMEA 8-M-52

Acceptable X / 1 (X) 2 (X) 3 (X) 4 (X)
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-61

Interaction Number(s): V-8-165-1

Fire Zone: S W Valve Pit

Target Component(s) Number, Description & Function:

3"-SWN-9 3" Automatic Vent Valve off 14" S W Header 1086.

Postulated Failure Mode(s) and Evaluation:

See FMEA 8-M-51

/1()2()3()4() Acceptable

Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83 EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-62

Interaction Number(s): V-8-166-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

1/2"-SWN-58 Normally Open Valve on Instr Conn Line off 3" Automatic Vent Valve (off 14" S W Header) rupture of 1/2" Line also considered.

Postulated Failure Mode(s) and Evaluation:

EVALUATING ENGINEER/DATE

See FMEA 8-M-52

FMEA NUMBER: 8-M-63

Interaction Number(s): V-8-167-1, V-8-167-2,

V-8-167-3, V-8-167-4 V-8-167-5, V-8-167-6

Fire Zone: 22

Target Component(s)
Number, Description & Function:

Service Water Pump #31

Postulated Failure Mode(s) and Evaluation:

M-3-(P) Loss of function of the pump (due to suction of drain header debris into the pump) will affect SW system capability.

Acceptable $\frac{X}{Potentially\ Unacceptable/Safety\ Function\ Affected}$

R Copra 2/25/83
EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-64

Interaction Number(s): V-8-168-1, V-8-168-2,

V-8-168-3, V-8-168-4 V-8-168-5, V-8-168-6

Fire Zone: 22

Target Component(s)
Number, Description & Function:

Service Water Pump #32

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-63

 $\frac{\text{X} \qquad / \text{1 (X) 2 (X) 3 (X) 4 (X)}}{\text{Potentially Unacceptable/Safety Function Affected}}$

R Copra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83

FMEA NUMBER: 8-M-65

Interaction Number(s): V-8-169-1, V-8-169-2,

V-8-169-3, V-8-169-4 V-8-169-5, V-8-169-6

Fire Zone: 22

Target Component(s)
Number, Description & Function:

Service Water Pump #33

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-63

X / 1 (X) 2 (X) 3 (X) 4 (X)
Potentially Unacceptable/Safety Function Affected

Acceptable

R Copra 2/25/83
EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-66

Interaction Number(s): V-8-170-1, V-8-170-2,

V-8-170-3, V-8-170-4 V-8-170-5, V-8-170-6

Fire Zone: 22

Target Component(s)
Number, Description & Function:

Service Water Pump #34

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-63

Acceptable Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83

EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83

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FMEA NUMBER: 8-M-67

Interaction Number(s): V-8-171-1, V-8-171-2,

V-8-171-3, V-8-171-4 V-8-171-5, V-8-171-6

Fire Zone: 22

Target Component(s)

Number, Description & Function:

Service Water Pump #35

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-63

X / 1 (X) 2 (X) 3 (X) 4 (X)

Potentially Unacceptable/Safety Function Affected

Acceptable

R Copra 2/25/83 EVALUATING ENGINEER/DATE T P Ruggiero 3/25/83

FMEA NUMBER: 8-M-68

Interaction Number(s): V-8-172-1, V-8-172-2,

V-8-172-3, V-8-172-4 V-8-172-5, V-8-172-6

Fire Zone: 22

Target Component(s)
Number, Description & Function:

Service Water Pump #36

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-63

 $\frac{X}{Potentially\ Unacceptable/Safety\ Function\ Affected}$

R Copra 2/25/83

Acceptable

EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83

FMEA NUMBER: 8-M-69

Interaction Number(s): V-8-185-2

V-8-185-4

Fire Zone: 36A

Target Component(s)

Number, Description & Function:

6"-SWN-FCV-1176 (SOV) 6" Control Valve on the discharge side of jacket water coolers & L O Coolers, on line 10" #1096 discharging

to 24" header #405

Postulated Failure Mode(s) and Evaluation:

M-4-(A) Valve goes full open on loss of motive power. No effect on safety function.

M-5-(P) Failure of valve mechanism may not permit valve to open.

R Copra 2/25/83
EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-70

Interaction Number(s): V-8-186-2

V-8-186-4

Fire Zone: 36A

Target Component(s) Number, Description & Function:

6"-SWN-FCV-1176 6" Control Valve on the discharge side of Jacket Water Coolers (SOV) & L O Coolers, on line 10" #1096, discharging to 24" header

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-69

/ 1 (X) 2 (X) 3 (X) 4 (X) Acceptable Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83 EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-71

Interaction Number(s): V-8-187-2

Fire Zone: 36A (DG Bldg)

Target Component(s)

Number, Description & Function:

SWN-69 2" Check Valve on vent line off the 10" #1096 on discharge side of D G Cooling, 10" #1096 line discharges to discharge channel via discharge header 24" #405. Rupture of vent line also considered.

Postulated Failure Mode(s) and Evaluation:

M-1-(A)

M-2-(A) Valve and line perform no safety function

M-3-(A)

/ 1 () 2 () 3 () 4 () Potentially Unacceptable/Safety Function Affected Ac ceptable

R Copra 2/25/83 EVALUATING ENGINEER/DATE

3/25/83 T P Ruggiero

FMEA NUMBER: 8-M-72

Interaction Number(s): V-8-190-2

Fire Zone: 36A

Target Component(s)
Number, Description & Function:

3"-SWN-94B Stop valve, normally open on line 3" - 1223 (subject of FMEA #8-M-22 interaction #L-8-248-2), on inlet to Control Bldg AC #31 condenser.

Postulated Failure Mode(s) and Evaluation:

M-5-(A) Failure of activating mechanism of normally open valve does not affect safety function. Rupture of line is unacceptable and is treated in a separate FMEA.

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83 T P Ruggiero 3/25/83
EVALUATING ENGINEER/DATE CHECKED/DATE

FMEA NUMBER: 8-M-73

Interaction Number(s): V-8-191-2

Fire Zone: 36A

Target Component(s) Number, Description & Function:

2"-SWN-PCV-1296 2" normally open PCV on line 3"-1223 (subject of FMEA) #8-M-22 for interaction #L-8-248-2), inlet line to Control Bldg AC #31 Condenser.

Postulated Failure Mode(s) and Evaluation:

M-4)

(P) If the valve fails open, the interaction is acceptable. The valve failed - close will affect habitability of Control Room.

/ 1 (X) 2 (X) 3 (X) 4 (X)Acceptable Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83

T P Ruggiero 3/25/83 CHECKED/DATE

EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-74

Interaction Number(s): V-8-192-2

Fire Zone: 36A

Target Component(s)
Number, Description & Function:

3"-SWN-108B Stop valves, normally open, on cooling line 3" - 1223 at inlet of AC Unit #31 Condensers.

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-72

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83
EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-75

Interaction Number(s): V-8-194-2

Fire Zone: 36A

Target Component(s)
Number, Description & Function:

3"-SWN-94A Stop valve, normally open on line 3" #1224 (subject of FMEA #8-M-23 for interaction #L-8-249-2) on inlet to Control Bldg AC #32 Condenser.

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-72

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83 T P Ruggiero 3/25/83
EVALUATING ENGINEER/DATE CHECKED/DATE

FMEA NUMBER: 8-M-76

Interaction Number(s): V-8-195-2

Fire Zone: 36A

Target Component(s)
Number, Description & Function:

3-SWN-PCV-1297 2" normally open PCV on line 3" - 1224 (subject of FMEA #8-M-23 for interaction #L-8-249-2) inlet line to Control Bldg AC #32 Condenser.

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-73

X / 1 (X) 2 (X) 3 (X) 4 (X)

Acceptable Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83 T P Ruggiero 3/25/83

EVALUATING ENGINEER/DATE CHECKED/DATE

FMEA NUMBER: 8-M-77

Interaction Number(s): V-8-196-2

Fire Zone: 36A

Target Component(s)
Number, Description & Function:

3"-SWN-108A

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-75

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83
EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-78

Interaction Number(s): V-8-198-1

Fire Zone: 102A

Target Component(s)
Number, Description & Function:

SWN-77 1/2" valve on vent connection to 6" inlet cooling water line to (Vent) diesel generator. Venting valve. Rupture of vent line also considered.

Postulated Failure Mode(s) and Evaluation:

- M-1-(P) Rupture of line results in loss of DG cooling water from 1/2" target line.
- M-5-(A) Valve malfunction in closed position does not affect safety function.

Acceptable Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83 T P Ruggiero 3/25/83

EVALUATING ENGINEER/DATE CHECKED/DATE

FMEA NUMBER: 8-M-79

Interaction Number(s): V-8-200-1

Fire Zone: 102A

Target Component(s)
Number, Description & Function:

SWN-77 See FMEA #8-M-78 (Vent)

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-78

 $\frac{X}{Acceptable} \frac{X}{Potentially\ Unacceptable/Safety\ Function\ Affected}$

R Copra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83 CHECKED/DATE

Ebasco Services Incorporated

FMEA NUMBER: 8-M-80

Interaction Number(s): V-8-202-1

Fire Zone: 102A

Target Component(s)
Number, Description & Function:

SWN-63 3/4" Relief valve for 6" inlet cooling water line to diesel generator. Rupture of its connection to 6" line is also considered.

Postulated Failure Mode(s) and Evaluation:

M-1-(P) Results in loss of DG cooling water from the target.

M-5-(A) Valve malfunction in closed position does not affect safety function.

Acceptable X / 1 (X) 2 (X) 3 (X) 4 (X)Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83

CHECKED/DATE

FMEA NUMBER: 8-M-81

Interaction Number(s): V-8-205-1

Fire Zone: 102A

Target Component(s)
Number, Description & Function:

SWN-75 1/2" valve on vent connection to 6" cooling water return header from (Vent) diesel generator. Return header discharges to discharge channel. Rupture of 1/2" conn is also considered.

Postulated Failure Mode(s) and Evaluation:

M-1-(A)

Valve and line perform no safety function.

M-5-(A)

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83
EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-82

Interaction Number(s): V-8-207-1

Fire Zone: 101A

Target Component(s) Number, Description & Function:

SWN-77 See FMEA #8-M-78 (Vent)

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-78

/ 1 (X) 2 (X) 3 (X) 4 (X) Acceptable Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83

EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-83

Interaction Number(s): V-8-209-1

Fire Zone: 101A

Target Component(s) Number, Description & Function:

SWN-77 See FMEA #8-M-78 (Vent)

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-78

 $\frac{\text{X} \qquad \text{/1 (X) 2 (X) 3 (X) 4 (X)}}{\text{Potentially Unacceptable/Safety Function Affected}}$ Acceptable

R Copra 2/25/83 EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-84

Interaction Number(s): V-8-211-1

Fire Zone:

Target Component(s)
Number, Description & Function:

SWN-63 See FMEA #8-M-80

Postulated Failure Mode(s) and Evaluation:

EVALUATING ENGINEER/DATE

See FMEA #8-M-80

CHECKED/DATE

FMEA NUMBER: 8-M-85

Interaction Number(s): V-8-214-1

Fire Zone: 101-A

Target Component(s)
Number, Description & Function:

SWN-75 See FMEA #8-M-81 (Vent)

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-81

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83
EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-86

Interaction Number(s): V-8-216-1

Fire Zone: 10

Target Component(s)
Number, Description & Function:

SWN-77 See FMEA #8-M-78 (Vent)

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-78

R Copra 2/25/83
EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-87

Interaction Number(s): V-8-218-1

Fire Zone: 10

Target Component(s)
Number, Description & Function:

SWN-63 See FMEA #8-M-80 (SRV)

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-80

R Copra 2/25/83
EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-88

Interaction Number(s): V-8-221-1

Fire Zone: 10

Target Component(s)
Number, Description & Function:

SWN-77 See FMEA #8-M-78 (Vent)

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-78

Acceptable $\frac{X}{Potentially\ Unacceptable/Safety\ Function\ Affected}$

R Copra 2/25/83
EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-89

Interaction Number(s): V-8-223-1

Fire Zone: 10

Target Component(s) Number, Description & Function:

SWN-75 See FMEA #8-M-81 (Vent)

Postulated Failure Mode(s) and Evaluation:

See FMEA #8-M-81

Acceptable

 $\frac{\mbox{$/$ 1 () 2 () 3 () 4 ()}}{\mbox{Potentially Unacceptable/Safety Function Affected}}$

R Copra 2/25/83

T P Ruggiero 3/25/83 CHECKED/DATE

EVALUATING ENGINEER/DATE

FMEA NUMBER: 8-M-90

Interaction Number(s): V-8-227-3

Fire Zone: 14

Target Component(s)
Number, Description & Function:

SWN-86 Relief valve off 3" inlet line (3" #1197) feeding the Instrument (3/4" x 1") Air Cooling Water Heat Exchanger #32. To protect HXR from over pressurization.

Postulated Failure Mode(s) and Evaluation:

M-5-(A) Jamming of valve in closed position does not affect safety function M-1-(P) (should rupture of the valve connection to the 3" line be considered, there will be loss of cooling water affecting control room habitability).

Acceptable $\frac{X}{Potentially\ Unacceptable/Safety\ Function\ Affected}$

R Copra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83

CHECKED/DATE

FMEA NUMBER: 8-M-91

Interaction Number(s): V-8-232-3

Fire Zone: 14

Target Component(s) Number, Description & Function:

1-1/2"-SWN-TCV-1113 (Air Operated)

TVC on the 3" SW discharge line from the Instrument Air Cooling Water Heat Exchangers #31 & #32. The discharge line dischargers to the discharge header 24" #405.

Postulated Failure Mode(s) and Evaluation:

M-4-(A) Failure of valve does not affect safety function. Manually operated M-5-(A) valve SWN-47 can be modulated to achieve the desired temperature in the discharge line.

 $\frac{\mbox{$/$ 1 () 2 () 3 () 4 ()}}{\mbox{Potentially Unacceptable/Safety Function Affected}}$ Acceptable

R Copra 2/25/83 EVALUATING ENGINEER/DATE

SERVICE WATER SYSTEM

I & C

POTENTIALLY UNACCEPTABLE INTERACTION NUMBER	FMEA (1) (2)	EIC (1) (2)	SPAN EVALUATION (1) (2) (3)
I-8-18-7	8-I-1-A	NR	NR
I-8-24-3	8-I-2-A	NR	NR
I-8-26-3	8-1-3-P	59A-019-A	NR
I-8-27-3	8-I-4-P	59A-019-A	NR
I-8-28-3	8-I-5-P	59A-019-A	NR
I-8-29-3	8-I-6-P	59A-019-A	NR
1-8-30-1	8-I-7-P	59A-004-A	NR
* I-8-30-2	8-I-7-P	59A-028-P	NA
I-8-30-3	8-I-7-P	59A-019-A	NR
I-8-31-1	8-I-8-P	59A-004-A	NR
* I-8-31-2	8-I-8-P	59A-028-A	NA
I-8-31-3	8-I-8-P	59A-019-A	NR
I-8-32-3	8-I-9-P	59A-019-A	NR
I-8-33-3	8-I-10-P	59A-019-A	NR
I-8-34-3	8-I-11-P	59A-019-A	NR
I-8-35-3	8-I-12-P	59A-019-A	NR
* I-8-36-2	8-I-13-P	59A-002-P	NA

NOTES: 1) Letter following numbers mean; A - Acceptable, P - Potentially Unacceptable.

²⁾ NR - Evaluation is Not Required since interaction is now acceptable.

³⁾ NA - Type of evaluation is not applicable to this interaction.

⁴⁾ Disposed of by repair in AFN pump building.

^{*} Unacceptable by all 3 types of evaluation.

SERVICE WATER SYSTEM

I & C

PO:	FENTIALLY UNACCEPTABLE INTERACTION NUMBER	FMEA (1) (2)	EIC (1) (2)	SPAN EVALUATION (1) (2) (3)
*	I-8-36-3	8-I-13-P	59A-002-P	NA
*	I-8-36-4	8-I-13-P	59A-005-P	NA
*	I-8-37-2	8-I-14-P	59A-002-P	NA
*	I-8-37-3	8-I-14-P	59A-002-P	NA
*	I-8-37-4	8-I-14-P	59A-005-P	NA
*	I-8-38-2	8-I-15-P	59A-002-P	NA
*	I-8-38-3	8-I-15-P	59A-002-P	NA
*	I-8-38-4	8-I-15-P	59A-005-P	NA
*	I-8-39-2	8-I-16-P	59A-002-P	NA
*	I-8-39-3	8-I-16-P	59A-002-P	NA
*	I-8-39-4	8-I-16-P	59A-005-P	NA
*	I-8-40-2	8-I-17-P	59A-002-P	NA
*	I-8-40-3	8-I-17-P	59A-002-P	NA
*	I-8-40-4	8-I-17-P	59A-005-P	NA
	1-8-62-1	8-I-18-A	NR	NR
	I-8-62-2	8-I-18-A	NR	NR
	I-8-62-3	8-I-18-A	NR	NR

NOTES: 1) Letter following numbers mean; A - Acceptable, P - Potentially Unacceptable.

²⁾ NR - Evaluation is Not Required since interaction is now acceptable.

³⁾ NA - Type of evaluation is not applicable to this interaction.

⁴⁾ Disposed of by repair in AFW pump building.

^{*} Unacceptable by all 3 types of evaluation.

SERVICE WATER SYSTEM

POTENTIALLY UNACCEPTABLE INTERACTION NUMBER	FMEA (1) (2)	EIC (1) (2)	SPAN EVALUATION (1) (2) (3)
I-8-63-1	8-I-19-A	NR	NR
I-8-63-2	8-I-19-A	NR	NR
I-8-63-3	8-I-19-A	NR	NR
I-8-64-4	8-I-20-A	NR	NR
I-8-64-5	8-I-20-A	NR	NR
I-8-65-4	8-I-21-A	NR	NR
I-8-65-5	8-I-21-A	NR	NR
I-8-66-1	8-I-22-A	NR	NR
I-8-66-2	8-I-22-A	NR	NR
I-8-66-3	8-I-22-A	NR	NR
I-8-67-1	8-I-23-A	NR	NR
I-8-67-2	8-I-23-A	NR	NR
I-8-67-3	8-I-23-A	NR	NR
1-8-68-1	8-I-24-A	NR	NR
I-8-68-2	8-I-24-A	NR	NR .
I-8-68-3	8-I-24-A	NR	NR
1-8-69-1	8-I-25-A	NR	NR

NOTES: 1) Letter following numbers mean; A - Acceptable, P - Potentially Unacceptable.

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³⁾ NA - Type of evaluation is not applicable to this interaction.

⁴⁾ Disposed of by repair in AFW pump building.* Unacceptable by all 3 types of evaluation.

SERVICE WATER SYSTEM

I & C

POTENTIALLY UNACCEPTABLE INTERACTION NUMBER	FMEA (1) (2)	EIC (1) (2)	SPAN EVALUATION (1) (2) (3)
I-8-69-2	8-I-25-A	NR	, NR
1-8-69-3	8-I-25-A	NR	NR
I-8-71-2	8-I-26-A	NR	NR
I-8-72-2	8-I-27-A	NR	NR
I-8-73-2	8-I-28-A	NR	NR
1-8-74-2	8-I-29-A	NR	NR
I-8-75-1	8-I-30-A	NR	NR
I-8-76-1	8-I-31-A	NR	NR
I-8-77-1	8-I-32-A	NR	NR
I-8-78-1	8-I-33-A	NR	NR
I-8-79-1	8-I-34-A	NR	NR
I-8-80-1	8-I-35-A	NR	NR
1-8-81-1	8-I-36-A	NR	NR
I-8-82-1	8-I-37-A	NR	NR
1-8-83-1	8-1-38-A	NR	NR
1-8-84-1	8-I-39-A	NR	NR
1-8-85-1	8-I-40-A	NR	NR

NOTES: 1) Letter following numbers mean; A - Acceptable, P - Potentially Unacceptable.

²⁾ NR - Evaluation is Not Required since interaction is now acceptable.

³⁾ NA - Type of evaluation is not applicable to this interaction.

⁴⁾ Disposed of by repair in AFW pump building.

^{*} Unacceptable by all 3 types of evaluation.

SERVICE WATER SYSTEM

I & C

P(OTENTIALLY UNACCEPTABLE INTERACTION NUMBER	FMEA (1) (2)	EIC (1) (2)	SPAN EVALUATION (1) (2) (3)
	I-8-86-1	8-I-41-A	NR	nr.
	I-8-87-1	8-I-42-A	NR	NR
	I-8-87-2	8-I-42-A	NR	NR
	I-8-88-1	8-I <i>-</i> 43-A	NR	NR
	I-8-88-2	8-I-43-A	NR	NR
*	I-8-90-4	8-I-44-P	36A-002-P	NA
*	I-8-92-4	8-I-45-P	36A-002-P	NA
*	I-8-93-4	8-I-46-P	36A-002-P	NA
*	1-8-94-4	8-I-47-P	36A-002-P	NA
*	I-8-95-1	8-I-48-P	36A-002-A	NA
	I-8-95-2	8-I-48-P	36A-001-A	NA
*	I-8-95-3	8-I-48-P	36A-003-P	NA
*	1-8-96-1	8-I-49-P	36A-002-P	NA ·
	I-8-96-2	8-I-49-P	36A-001-A	NA
*	I - 8-96-3	8-I-49-P	36A-003-P	NA.
*	I-8-97-1	8-I-50-P	36A-002-P	NA
	I-8-97-2	8-I-50-P	36A-001-A	NA

NOTES: 1) Letter following numbers mean; A - Acceptable, P - Potentially Unacceptable.

²⁾ NR - Evaluation is Not Required since interaction is now acceptable.

³⁾ NA - Type of evaluation is not applicable to this interaction.

⁴⁾ Disposed of by repair in AFW pump building.

^{*} Unacceptable by all 3 types of evaluation.

SERVICE WATER SYSTEM

	ENTIALLY UNACCEPTABLE INTERACTION NUMBER	FMEA (1) (2)	EIC (1) (2)	SPAN EVALUATION (1) (2) (3)
*	I-8-97-3	8-I-50-P	36A-003-P	NA
*	1-8-98-1	8-I-51-P	36A-002-P	NA
	I-8-98-2	8-I-51-P	36A-001-A	NA
*	I-8-98-3	8-I-51-P	36A-003-P	NA
*	I-8-99-1	8-I-52-P	36A-002-P	NA
	I-8-99-2	8-I-52-P	36A-001-A	NA
*	I-8-99-3	8-I-52-P	36A-003-P	NA
*	I-8-100-1	8-I-53-P	36A-002-P	NA
	I-8-100-2	8-I-53-P	36A-001-A	NA
*	I-8-100-3	8-1-53-P	36A-003-P	NA
*	I-8-101-1	8-I-54-P	36A-003-P	NA
	I-8-101-2	8-I-54-P	36A-001-A	NA
*	I-8-101-3	8-I-54-P	36A-001-A	NA
*	I-8-102-1	8-I-55-P	36A-002-P	NA
	I-8-102-2	8-I-55-P	36A-001-A	NA
*	I-8-102-3	8-I-55-P	36A-003-P	NA
*	I-8-103-1	8-I-56-P	36A-002-P	NA

- NOTES: 1) Letter following numbers mean; A Acceptable, P Potentially Unacceptable.
 - 2) NR Evaluation is Not Required since interaction is now acceptable.
 - 3) NA Type of evaluation is not applicable to this interaction.
 - 4) Disposed of by repair in AFW pump building.
 - * Unacceptable by all 3 types of evaluation.

SERVICE WATER SYSTEM

PO	TENTIALLY UNACCEPTABLE INTERACTION NUMBER	FMEA (1) (2)	EIC (1) (2)	SPAN EVALUATION (1) (2) (3)
	I-8-103-2	8-I-56-P	36A-001-A	NA NA
*	I-8-103-3	8-I-56-P	36A-003-P	NA
*	I-8-104-1	8-I-57-P	36A-002-P	NA
	1-8-104-2	8-I-57-P	36A-001-A	NA
*	I-8-104-3	8-I-57-P	36A-003-P	NA
	I-8-105-1	8-I-58-A	NR	NR
	I-8-105-2	8-I-58-A	NR	NR
	I-8-106-1	8-I-59-A	NR	NR
	I-8-106-2	8-I-59-A	NR	NR
*	I-8-107-1 .	8-I-60-P	NA	NA
*	1-8-108-1	8-I-61-P	NA	NA
*	1-8-109-1	8-I-62-P	NA	NA
*	1-8-110-1	8-I-63-P	NA	NA
*	I-8-111-1	8-I-64-P	NA	NA
*	I-8-112-1	8-I-65-P	NA	NA
*	I-8-113-1	8-I-66-P	NA	NA
*	I-8-114-1	8-I-67-P	NA	NA

NOTES: 1) Letter following numbers mean; A - Acceptable, P - Potentially Unacceptable.

²⁾ NR - Evaluation is Not Required since interaction is now acceptable.

³⁾ NA - Type of evaluation is not applicable to this interaction.

⁴⁾ Disposed of by repair in AFW pump building.

^{*} Unacceptable by all 3 types of evaluation.

SERVICE WATER SYSTEM

PO	TENTIALLY UNACCEPTABLE	FMEA	EIC	SPAN EVALUATION
	INTERACTION NUMBER	(1) (2)	(1) (2)	(1) (2) (3)
*	I-8-115-1	8-I-68-P	NA ·	NA
*	1-8-116-1	8-I-69-P	NA	NA
*	1-8-117-1	8-I-70-P	NA	NA
*	1-8-118-1	8-I-71-P	NA	NA
*	1-8-119-3	8-I-72-P	` NA	NA
*	1-8-119-4	8-I-72-P	NA	NA
*	1-8-120-1	8-I-73-P	NA	NA
*	I-8-120-2	8-I-73-P	NA	NA
	1-8-121-1	8-I-74-A	NR	NR
	1-8-121-2	8-I-74-A	NR	NR
	1-8-122-1	8-I-75-A	NR	NR
	1-8-122-2	8-I-75-A	NR	NR
	I-8-123-1	8-I-76-A	NR	NR
	1-8-124-1	8-I-77-A	NR	NR
	1-8-127-1	8-I-78-A	NR	NR
	I-8-128-1	8-I-79-A	NR	NR
	I-8-131-1	8-I-80-A	NR	NR
	1-8-132-1	8-I-81-A	NR	NR

NOTES: 1) Letter following numbers mean; A - Acceptable, P - Potentially Unacceptable.

²⁾ NR - Evaluation is Not Required since interaction is now acceptable.

³⁾ NA - Type of evaluation is not applicable to this interaction.

⁴⁾ Disposed of by repair in AFW pump building.

^{*} Unacceptable by all 3 types of evaluation.

SYSTEM NAME SERVICE WATER MATRIX CATEGORY NON-CONNECTED	SYSTEM	NO	8		_			
MATRIX CATEGORY NON-CONNECTED INTERCONNECTED X		•			-			
INTERCONNECTED X	SYSTEM	NAME	SERVICE	WATER				
INTERCONNECTED X								
INTERCONNECTED X				•				-
INTERCONNECTED X								
INTERCONNECTED X								
INTERCONNECTED X	MATTOTY	CATECODY				NIONI CONNTECTIO	י ו	
	MAIRIA	CALEGORI				NOIV-CONNECT	<u></u>	
						INTERCONNEC	TED	Х
	,							
					•			

Ebasco Services Incorporated

SHEET	1	OF	5
SHEET	1 _	UF	

SYSTEM	NO.	I-8

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
PI1193	V-SWN-58 (Pump #31)	S	•
PI1192	V-SWN-58 (Pump #32)	S	
PI1191	V-SWN-58 (Pump #33)	S	
PI1273	V-SWN-58 (Pump #34)	S	
PI1274	V-SWN-58 (Pump #35)	S	•
PI1275	V-SWN-58 (Pump #36)	. S	
PT1190	PCV1295 118V AC Bus 34	S S	
PC1112A	PCV1295	S	
PC1112B	PCV1295	· S	
PT1191	PCV1295 118V AC Bus 33	S S	
PC1111A	PCV1295	S	
PC1111B	PCV1295	S	•
TI1308	6" - Line #1095	S	
TI1307	6" - Line #1094	S	
TI1306	6" - Line #1093	s	
TI1283	4" - Line #1098	S	
TI1282	4" - Line #1097	S	
M Socratous/9-15	-82	R Daverio/	9-22-82
PREPARED BY/DATE	E	APPROVED BY/DA	re

SHEET	2	OF	5

SYSTEM	NO.	I-8
J _ U _ L _ L _ L _ L _ L	140.	

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
TI 1281	4" - Line #1096	S	
PC	V-SWN 113A PCV 1297 Instrument Air	S S S	
PC	V-SWN 113B PCV 1296 Instrument Air	S S S	
PI 1276	V-SWN 37	Ś	
TI 1314	3" - Line #1200	S	
PI 1277	V-SWN 37	S	
TI 1237	18" - Line #509	S	/
TI 1238	18" - Line #405	S	
TI 1264	2" - Line #11	S	
RE 23	2" - Line #11 118V AC Bus 33	S S	
RE 16	2" - Line #11 118V AC Bus 33	S S	
TC 1111S	2" - Line #11	S	
FI 1112	3" - Line #11	S	

M Socr	atous/9-15	5-82
PREPAR	ED BY/DATE	Ξ.

SHEET	3	OF	5

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
FT 1125	V-SWN-72 V-SWN-72 FC 1125S 118V AC, Bus #32	S S S	
FT 1122	V-SWN-72 V-SWN-72 FC 1122S 118V AC Bus #33	S S S	
TI 1236	10" - Line #12e	S	
TI 1235	10" - Line #12d	S	
FT 1121	V-SWN-72 V-SWN-72 FC 1121S 118V AC Bus #31	S S S S	
TI 1234	10" - Line #12b	s	
FT 1123	V-SWN-72 V-SWN-72 FC 1123S 118V AC Bus #31	S S S	
TI 1233	10" - Line #12a	s ·	
FT 1124	V-SWN-72 V-SWN-72 FC 1124S 118V AC Bus #34	S S S	
TI 1232	10" - Line #12c	S	

M Socratous/9-15-82
PREPARED BY/DATE

SHEET	<i>I</i> 1.	OF	5

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT ·	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
FI 7011	V-SWN-506 V-SWN-507	S .S	
FI 7010	V-SWN-513 V-SWN-512	S S	
FI 7009	V-SWN-504 V-SWN-503	S S	
FI 7008	V-SWN-510 V-SWN-509	S S	
FI 7007	V-SWN-501 V-SWN-500	S S	,
FI 1130	4" - Line #494	S	
TI 1280	4" - Line #494	S	
TI 1239	18" - Line #406	S	
TI 1309	2" - Line #497	S	
TI 1310	2" - Line #498	S	·
TI 1311	2" - Line #496	S	
TI 1312	2" - Line #495	S	
TI 1313	2" - Line #499	S	
TE 1203-1	TT 1203 118V AC Bus 32	S S	

M So	cratous/9-15-82
PREPARED	BY/DATE

SHEET	5	OF	5	

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	
TE 1203-2	TT 1203 118V AC Bus 32	S S	
	116V AC Bus 32	5	
TE 1203-3	TT 1203	S	
	118V AC Bus 32	S	
TE 1203-4	TT 1203	S	
	118V AC Bus 32	S	
TE 1203-5	118V AC Bus 32	S	•
TT 1203	TE 1203-1	S	
	TE 1203-2	S	
	TE 1203-3	S	
	TE 1203-4	S	
	TE 1203-5	S	
	118V AC Bus 32	S	
TC 1113	2" - Line 1186	S	
	TCV 1113	S	
,	Instrument Air	S	
FIC 1176	V-SWN-68	S	
	V-SWN-68	S	
	SOV-1274	·S	
	SOV-1275	S	
	Instrument Air	S	
DPC 1134 S	V-SWN-68	S	
•	V-SWN-68	S	

M Socra	tous/9-15-82	•
PREPARED	BY / DATE	

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY SYSTEMS INTERACTION EVALUATION

SYSTEM NO.	1-8		
SYSTEM NAME	SERVICE WATER		
	·		
EVALUATION CATEGORY		NON-CONNECTED	
		INTERCONNECTED	X
No	evaluations	required	

Ebasco Services Incorporated

SYSTEM	NO _		8					. "
SYSTEM	NAME		SERVICE	WATER				
MATRIX	CATEGOR	ΥY			NON-CONNECTE	ED	X	
					INTERCONNECT	ŒD _		
	,					. –		

Mocratous 9/22/82
PREPARED BY/DATE

R Davin 9/22/P2
APPROVED BY/DATE

Ebasco Services Incorporated

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		1-8			NO INTERACTION						-							
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7 - 7																		
INCHES THUMMAN	-																	
INCHES CM.							·											
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	F	FIRE	DING: REA	82A	TAINM	IENT I	30 T T T	ING,	EL.	68.								
,	L	OC WITI	ATION : _ HIN_FIRE	ZONE							SEI	RVICE	WAT	ER SY	STEM			
			SERVICE:	S INCORP			POW			ORIT PO				W YC		5 209 1-8	.00	3
	DATE	E N	CH ONE	R M DA						S INT			N ST RIX	UDY	9	SH 4	OF ₂	5_

INTERACTION 0 N I-8 TE 1203-5 Х **TARGE TS**

BUILDING: REACTOR CONTAINMENT BUILDING, EL. 68'

FIRE ZONE: 83A

LOCATION : QUAD IV WITHIN FIRE ZONE

SERVICE WATER SYSTEM

EBASCO SERVICES INCORPORATED

DIV. I&C DR.MS **APPROVED** DATE _____CH. SCALE NONE R.M. DAVERIO

POWER AUTHORITY STATE OF NEW YORK 5209.003 INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY

SH 5 OF₂₅ INTERACTION MATRIX

I-8

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				1	2	3										
	I-8		NO INTERACTION	LIGHT	CONDUITS	CONDUIT						,				
		OFF 10" 12b:														
	26	FT 1121 Lo P SENS. LINE				163							,			
	27	FT 1121 Hi P SENS. LINE				163			•							
		OFF 10" 12d:														
	28	FT 1122 Lo P SENS. LINE			(163										
	29	FT 1122 Hi P SENS. LINE				163										
m		OFF 10" 12e:)										
ET	30	FT 1125 Lo P. SENS. LINE		161	161	163										ŀ
TARGETS	31	FT 1125 Hi P. SENS. LINE		161	$\left(161\right)$	163										
1		OFF 10" 12c:	٠)	()		:								
	32	FT 1124 Lo P SENSING LINE				163										
	33	FT 1124 Hi P SENS. LINE				163										
		OFF 10" 12a)										
	34	FT 1123 Lo p SENS. LINE				163										
	35	FT 1123 Hi P SENS. LINE				163										
i	FIRE	DING: PRIMARY AUX ZONE: 59A ATION: PIPING PE					•		SE	RVICE	E WAT	ER SY	YSTEN	1		
EBA	ASCO	SERVICES INCORP	ORAT	ED	POW				Y STA	TE C	FNE		RK :	5209	.00	3
DATE	Ξ	DR. MS APPRO				SYS	rems	TNI	ERA	No. 3 CTIO MATI	N ST	UDY		r–8 [°] SH 9	OF 2	25



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				1	2	3	4	5								
	I-8		NO INTERACTION	CONDUIT	LINE #830	LINE #830	LINE #830A	TWO STATION AIR PIPES							-	
		AT RACK NO. 7:						<u>.</u>								
	36	FT 1124		t 63	164	164	164	165								
	37	FT 1123		(163	164	164	164	165								
	38	FT 1121		163	164	Į64)	164	165								
	39	FT 1122	19.	163	164	164	164	165								
	40	FT 1125		163	164	164	164	165								
S			:.												-	
TARGETS		OFF 18" #406	··													
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		DING: PRIMARY AU ZONE: 59A	XILIA	RY BI	JILDI	NG,	EL. 4	1'								
1	_OC	ATION : PIPING PE	NETRA	TION	ŢREN	СН			C E T	7/T CT	WATI	יים פי	C 111 27 A		, 	\dashv
		HIN FIRE ZONE SERVICES INCORF	POR AT	TED	POW	ER A	UTHO	RITY	-						. 00	3
DIV.	I&C	DR. MS APPE	ROVED			IN	DIAN	POI	NT	No. 3	3			I-8		ı
DATE	E NO	CH. R.M. DAV	ERIO					ACTIC				YUU	-	n 10	OF ₂	<u>5</u>

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	I-8	OFF 2" 495:							<u> </u>						
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	44	TI 1311	Х												
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S	45 SENSING LINE X OFF 2" 497: 46 TI 1309 X OFF 2" 498: 48 TI 1310 X 50 OFF 2" 499: TI 1313 X TI 1313														
	OFF 2" 497: 46 TI 1309 X OFF 2" 498: 48 TI 1310 X 50 OFF 2" 499:														
TARGETS	45 SENSING LINE X OFF 2" 497: 46 TI 1309 X OFF 2" 498: 48 TI 1310 X 50 OFF 2" 499: TI 1313														
1	53		х												
	55	TI 1280	х												
	56	TI 1280 SENSING LINE	Х												
	4.7	TI 1309 SENSING LINE	χ̈́												
	/: 0	TI 1310	v												
		FI1130													
		DENSING LINE								•					
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		TI 1313													
		46 TI 1309													
SCA	E NO	### ### ##############################													

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		57	FI 7009		Х												
		58	FI 7008		Х												
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	1	_OC/	ATION :_ HIN FIRE	PIPING PE	NETRA	TION	TREN	ICH			SEF	RVICE	WATE	ER SY	STEM		
			SERVICE		ORAT	ED	POW	ER A	UTHO	PRIT		-					. 003
	DIV.	I&C	DR. MS		OVED				DIAN TEMS				, N ST	UDY		I-8 3H ₁₇₂	OF ₂₅
-	SCAL	E NC	ONE CH.	R.M. DAV	ERIO		· .		ITER							12	

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	62 63	NO 32: OFF 18" PI 1277 PI 1277			[170]	171	171								
		BY COMPO			170)										
TARGETS	64	NO 31: OFF 18" PI 1276 PI 1276	#411				(172 173 172	172 173 172						
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		I - 8			NO INTERACTION	LIGHT	CONDUIT	AUX STEAM LINE 2" #560									
		:	BY COMP HEAT EX	CH.NO.													
		66	OFF 18" TI 1237	#405		174 175	174 175	174									
:		67	TI 1237 SENSING	LINE		174 175	174 175	174									
·		68	OFF 18" TI 1238	<i>#</i> 509	. (174 175	174 175	174									
		69	TI 1238 SENSING	LINE		174 175	174 175	174									
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<i>:</i>	DATE	E NC	ONE	R.M. I	DAVERTO					ACTI			N ST RIX	זעט) I 1	4 OF 2 5

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	I-8		NO INTERACTION	THREE CONDUITS	STATION AIR PIPE								·		
		COOLING WATER HEAT EXCHANGE													
ĺ	*	OFF 2½" #1200)												
ĺ	71	TI 1314		176	177										
	72	TI 1314 SENSING LINE		176	177)									
	73	TC 1113		176 178	177										
	74	TC 1113 SENSING LINE		176 178	177)									
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		ZONE: <u>14</u> ATION: <u>14</u> IN FIRE ZO							CE1	₽₩₹Ċ₽	WAT	ED CV	יובות ט.	· · · · · · · · · · · · · · · · · · ·	
		SERVICES INC		TED	POW	FR A	<u></u> ПТН	ORIT							. 003
DIV.	I&C	DR. MS	APPROVE		"	IN	DIAN	PO	INT	No. 3	3			I-8	
DAT SCA	E-NO	ONE R.M.	DAVERIO					S INT				אטט	-	л <u>15</u>	5 OF 2

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i				1											
	I - 8		NO INTERACTION	LIGHTS (TWO)											
		DIESEL GENERATOR NO 31:	₹												
	75	OFF 6" #1096 TI 1281		[188]											
	76	TI 1281 SENSING LINE		188											
										,					
	77	OFF 6" #1093 TI 1306		[188]										-	
	78	TI 1306 SENSING LINE		188)			· · ·								
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TARGETS															
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1	FIRE	DING: DIESEL GEN ZONE: 10			LD. I	EL. 1	5'								
	LOC/ WITH	ATION: HIN FIRE ZONE			,				SE	RVICE	WAT	ER SY	STEM	[
EB,	ASCO I&C	SERVICES INCOR	PORAT		POW	IN	DIAN	ORIT	INT	No. 3	3			5 209 I-8 SH 10	
DAT SCA	LE NO	NE R.M. DA	VERIO					ACTI				JD1	-	1(, U I

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		I-8			NO INTERACTION	LIGHTS (TWO)												
				SENERATOR														
			NO 32:	007.														
		79	TI 1282	.097.		187												
		80	TI 1282 SENSING	LINE		187												
-			OFF 6" #	100/-														
<u>-</u>		81	TI 1307	1094:		187												
	S	82	SENSING	LINE	1	187)												
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				S INCORP	ORAT	ED	POW				YSTA	TE C	FNE		RK 5	209	.00	3
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		I-8		NO INTERACTION	LIGHTS (TWO)												
		•	DIESEL GENERATOR														
			NO 33:														
		83	OFF 6" 1098: TI 1283	(185 186												
		84	OFF 6" 1095: SENSING LINE		185 186					-							
		-85	OFF 6" 1095: TI 1308	(185 186											-	
- /	S	86	TI 1308 SENSING LINE	(185 186												
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			DING: DIESEL GEN ZONE: 102A	VEKATO	K RO	LLD.	EL.	Τ2,			,			•			
	L	OC/	ATION: HIN_FIRE ZONE			•			-	SEF	RVICE	WATE	ER SY	STEM			
	EBA	SCO	SERVICES INCORE		ED	POW				Y STA	ATE C	F NE		RK 5	5209	.00	3
	DIV DATE SCAL	I&C F NC	DR. MS APPE	ROVED VERIO			SYS	TEMS	ראו פ	INT FERA ON	CTIO	N ST	UDY		I-8 SH 18	3 <b>OF</b> 2	5

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					1	2	3	4									
		I-8		NO INTERACTION	CONDUIT	WALL HEATER	CONDUITS (FOUR)	CONDUIT						,	:		
			SERVICE WATER TO CCR AC UNITS														
		87	PC OFF: 1½" SWN 113B	(	180 181	180 181	).										
		88	PC OFF: 1½" SWN 113A	(	180 181	180 181											
						)											
			SERVICE WATER EMERG. DIESEL														
			GENERATORS:														
U	2	89	OFF 10" 1096 FIC 1176				182		-								
	IARGE IS	90	FIC 1176 LO P. SENSING LINE					183	<u>.</u>	·							
	2	91	DPC 1134C				182										
F	<u> </u>	92	DPC 1134C HI P. SENSING LINE					183				<u> </u>					
		93	FIC 1176 HI P. SENSING LINE		·			183									
		94	DPC 1134C LO P. SENSING LINE					183	);								
									-					ļ			
	L												<u> </u>				
	BUILDING: CONTROL BUILDING, EL. 15' FIRE ZONE: 36A																
	LOCATION: VALVE ROOM WITHIN FIRE ZONE SERVICE WATER SYSTEM																
E			SERVICES INCORP	ORAT	ED	POW				Y STA	TE C	OF NE		RK :	5209	.003	3
			DR. MS APPR					DIAN TEMS			•		-UDY		I-8 <b>H</b> 10	9 <b>OF</b> 2	5
S	DATECHR.M. DAVERIO SYSTEMS INTERACTION STUDY SH 19 OF 25 INTERACTION MATRIX								_								

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		•		1	2	3									
	<u>I-8</u>	***	NO INTERACTION	CONDUIT	BOTTLES	WALL HEATER					,		-		
	95	FOR FCV 1176A: SOV 1276A		184	184	184									
	96	AIRLINES FROM SOV1276ATO FCV1176A		184	184	184									
	97	FOR FCV 1176: SOV 1276	٠,	184	184	184)									
	98	AIRLINES FROM SOV1276 TO FCV1176		184	184	184	:								
	99	SOV 1275		184	184	184	i								
	100	F1C1176 TO SOV1275		184	184	184)									
U	101	AIRLINE FROM SOV1275 TO POS.	-	184	184	184									
d F	102	SOV 1274		[184]	184	184	•								
TAPGE	103	F1C1176 TO SOV1274		184)	184	184									
	104	AIRLINE FROM SOV1274 TO POS.		184	184	184									
		-			, je										
	<u>.</u>	·				-									
									, <u>.</u>				<u>.</u> [		
	-														
		-								,.					
		DING: CONTROL BUIL ZONE: 36A	DING,	EL.	15'							•			
	LOCATION: VALVE ROOM WITHIN FIRE ZONE SERVICE WATER SYSTEM														
E		SERVICES INCORP		rED.	POW	ER A	UTH(	ORIT				 		.003	3
DATE CH. BY PAYENTS						DIAN CEMS	POI	NT ERA	No. 3 CTIO	S N ST		I-8		1	

	SOURCES																	
						1	2											I
		I-8			NO INTERACTION	LIGHT	CONDUITS (TWO)											
			OFF ½'' SV	√N 113B:														l
		105	PI SENSI	NG LINE		179	179											i
			OFF ½'' SW	ЛN 113A:	,													
		106	PI SENSIN	G LINE	· .	179	179											
				<del> </del>												·		
	TS		<del>- 1-7.1</del>		•													
ام <del>د</del> ار م	TARGETS																	
- 5	ΤĀ																	l
- 6																		
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4									•									
INCHES THOMPTON O																		l
ž						·												İ
·	F	FIRE	DING:C	14						<u>!</u>	<u> </u>	<u>.                                    </u>			<u> </u>	<u> </u>		
	\	_OC/ WITH	ATION : _	CORRIDOR CONE	OUTSI	DE VA							ICE W					
			SERVICE  DR. MS		ORAT		POW					No. 3		W YO		5 <b>209</b> 1-8	. 003	,
-	DATECHR.M. DAVERIO SYSTEMS INTERACTION STUDY SH 21 OF 25 INTERACTION MATRIX									-								

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The state of the second of the second

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				1	2	3	4								
	I-8		NO INTERACTION	LIGHT	CONDUIT	LIGHT	CONDUIT								
		DOWNSTREAM OF CONNECTION OF HEADER 408 &													
		BACK UP HEADER: PT 1191				T00	190	•							
	119	SENSING LINE				190 191					-				
		DOLDIGER		.*											
		DOWNSTREAM OF CONNECTION OF HEADER 409 &													
		BACK UP HEADER: PT 1190													
S	120	SENSING LINE		189	I89)										
TARGETS															
AR											`.				
														,	
BUILDING: VALVE PIT, AT INTAKE STRUCTURE  FIRE ZONE: NA (ADJACENT TO FIRE ZONE 22)															
L \	LOCATION: SERVICE WATER SYSTEM														
EB/	SCO	SERVICES INCORP	ORAT	ED	POW							W YO	1		. 003
		DR. MS APPRO			:	SYST	EMS		ERA	CTIO	N ST	UDY		[−8 <b>H</b> 23	<b>OF</b> 25
SCAL	SCALE NONE R.M. DAVERTO INTERACTION MATRIX														

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					1							
	I-8			NO INTERACTION	8" SCREEEN WASH HEADER							
		PUMP NO 32:										
	127	PI 1192		*****	196							
	128	PI 1192 SENSING LINE	2		196							
		PUMP NO 31:										
	129	PI 1193		Х						-		
တ	130	PI 1193 SENSING LINE		Х								
TARGETS		PUMP NO 33:		<del></del> <del></del>								
M		PI 1191			195							
	132	PI 1191 SENSING LINE			195)							
					·							
				**				· · ·				
E	BUIL FIRE	DING: INTAK	E STRUC	TURE	E, EL	. 9'		•	-	<del></del>		

LOCATION : WITHIN FIRE ZONE

SERVICE WATER SYSTEM

EBASCO SERVICES INCORPORA	TED POWER AUTHORITY STATE OF NEW YORK	
DIV. I&C DR. MS APPROVE		I-8
DATECHR.M. DAVERIO	SYSTEMS INTERACTION STUDY INTERACTION MATRIX	SH 25 OF25



### NON-CONNECTED INTERACTIONS EVALUATION

- 1. No Interaction Source is Class II and is therefore supported adequately. (See response to IP-3 FSAR question 5.24).
- 2. Acceptable Source pipe/conduit is equal size or smaller in diameter and/or the same thickness or thinner wall than the target pipe/conduit/tubing. Paragraph 6.2.2.1a Volume I.
- 3. Acceptable Source has insufficient mass to damage the target component.
- 4. Acceptable Basis is engineering judgement. Specific justification is on the evaluation form.
- 5. Potentially Unacceptable - Discussion of specific is on the evaluation form.
- Potentially
   Unacceptable Source pipe/conduit is large enough to damage target conduit/pipe/tubing.
- 8. No Interaction Upon further investigation of the source, this portion of its system is designated Seismic I.

R2 7/22/82 R1 6/30/82 R0 6/26/82



SYSTEM NO.	8			
SYSTEM NAME	SERVICE WATER			
		<del></del>		
EVALUATION CA	ATEGORY	NON-CONNECTED	X	
		INTERCONNECTED		

R Daven 9/21/82 INTERACTION ENGINEER/DATE

WGriswahl 9.23-82
VERIFIED/DATE

Sheet	1	of	16	5

System	No.	I-8
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R DAVERIO 9/21/82

INTERACTION ENGINEER / DATE

## POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

	-
BUILDING: FAN HOUSE	
FIRE ZONE: 884	
LOCATION WITHIN FIRE ZCNE:	
POTENTIAL INTERACTION NO.: I-8-16-6	
PHOTOGRAPH NO.: 168	
BACKGROUND NO.: Sheet 19	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: OFF 10" 12C: TI 1232	
SOURCE: CONDUIT	
DESCRIPTION OF POSTULATED INTERACTION:	,
Source falls on target.	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 3	
X ACCEPTABLE	POTENTIALLY UNACCEPTABLE

Ebasco Services Incorporated

W GRISWOLD

9/23/82

VERIFIED/DATE

9/23/82

### POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING:	FAN HOUSE
FIRE ZONE:	<b>888</b>
LOCATION WITH	IIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-17-6

PHOTOGRAPH NO.: 1168

BACKGROUND NO.: Sheet 19

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1232 SENSING LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

POTENTIALLY ACCEPTABLE -UNACCEPTABLE

9/21/82 W GRISWOLD R DAVERIO VERIFIED/DATE INTERACTION ENGINEER / DATE

BUILDING:

FAN HOUSE

FIRE ZONE:

88:A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-18-6

PHOTOGRAPH NO.: I 69

BACKGROUND NO.: Sheet 19

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 10" 12d : TI 1233

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY

-UNACCEPTABLE

R DAVERIO

9/21/82

W GRISWOLD

9/23/82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

9/23/82

VERIFIED/DATE

INTERACTION ENGINEER/DATE

### POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

ACCEPTABLE X	POTENTIALLY
•	
EVALUATION NOTE NO: 7	·
EVALUATION OF INTERACTION:	
Source falls on target.	
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE: LIGHT	
TARGET: OFF 10" 12d: TI 1233	
IDENTIFICATION OF INTERACTION COMPONENTS:	,
	<i>,</i>
BACKGROUND NO.: Sheet 19	
PHOTOGRAPH NO.: I 69	•
POTENTIAL INTERACTION NO.: I-8-18-7	
LOCATION WITHIN FIRE ZCNE:	
FIRE ZONE: U88A	
BUILDING: FAN HOUSE	

BUILDING: FAN HOUSE

FIRE ZONE: 88A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: 1-8-19-6

PHOTOGRAPH NO.: I 69

BACKGROUND NO.: Sheet 19

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1233 SENSING LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R DAVERIO

9/21/82

INTERACTION ENGINEER/DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

BUILDING: FAN HOUSE

FIRE ZONE: 88A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.:

PHOTOGRAPH NO.: I 69

BACKGROUND NO.: Sheet 19

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1233 SENSING LINE

SOURCE: LIGHT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R DAVERIO

9/21/82

INTERACTION ENGINEER / DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

System	No.	I <b>-</b> 8
5ystem	MO.	

BUILDING: FAN HOUSE

FIRE ZONE: 88A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.:

I-8-22-5

PHOTOGRAPH NO.: I 67

BACKGROUND NO.:

Sheet 20

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 10" 12d: TI 1235

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R DAVERIO

9/21/82

INTERACTION ENGINEER / DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

BUILDING:

FAN HOUSE

FIRE ZONE: 88A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-23-5

PHOTOGRAPH NO.: I 67

BACKGROUND NO.: Sheet 20

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1235 SENSING LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

POTENTIALLY -UNACCEPTABLE

R DAVERIO

9/21/82

INTERACTION ENGINEER / DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

R DAVERIO

9/21/82

INTERACTION ENGINEER/DATE

# POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

EAN HOUGE	
BUILDING: FAN HOUSE	
FIRE ZONE: 88A	
LOCATION WITHIN FIRE ZONE:	
POTENTIAL INTERACTION NO.: 1-8-24-2	
PHOTOGRAPH NO.: I 66	•
BACKGROUND NO.: Sheet 20	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: OFF 10" 12e: TI 1236	
SOURCE: LIGHT (WALL)	
DESCRIPTION OF POSTULATED INTERACTION:	
Source falls on target.	
EVALUATION OF INTERACTION:	•
EVALUATION NOTE NO: 3	
XACCEPTABLE	POTENTIALLY UNACCEPTABLE

Ebasco Services Incorporated

W GRISWOLD

9/23/82

VERIFIED/DATE

Sheet	10	of	165	

0,00000 1=0	System	No.	T-8	
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B	Ħ	Т	Τ.	D	Т	N	G	٠	

FAN HOUSE

FIRE ZONE:

88A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-24-3

PHOTOGRAPH NO.: I 66

BACKGROUND NO.: Sheet 20

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 10" 12e TI 1236

SOURCE: LIGHT (CEILING)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R DAVERIO

9/21/82

INTERACTION ENGINEER / DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

R Daverio 9/2//82 W Griswold 9/23/82	INTERACTION ENGINEER /DATE		ED/DATE
FIRE ZONE: 88A  LOCATION WITHIN FIRE ZCNE:  POTENTIAL INTERACTION NO.: I-8-24-4  PHOTOGRAPH NO.: I 66  BACKGROUND NO.: Sheet 20  IDENTIFICATION OF INTERACTION COMPONENTS:  TARGET: OFF 10" 12e: TI 1236  SOURCE: CONDUITS (THREE)  DESCRIPTION OF POSTULATED INTERACTION:  Source falls on target.  EVALUATION NOTE NO: 3	R Daverio 9/2//82	W Griswold	9/23/82
FIRE ZONE: 88A  LOCATION WITHIN FIRE ZONE:  POTENTIAL INTERACTION NO.: I-8-24-4  PHOTOGRAPH NO.: I 66  BACKGROUND NO.: Sheet 20  IDENTIFICATION OF INTERACTION COMPONENTS:  TARGET: OFF 10" 12e: TI 1236  SOURCE: CONDUITS (THREE)  DESCRIPTION OF POSTULATED INTERACTION:  Source falls on target.	XACCEPTABLE	<del>- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-</del>	POTENTIALLY UNACCEPTABL
FIRE ZONE: 88A  LOCATION WITHIN FIRE ZONE:  POTENTIAL INTERACTION NO.: I-8-24-4  PHOTOGRAPH NO.: I 66  BACKGROUND NO.: Sheet 20  IDENTIFICATION OF INTERACTION COMPONENTS:  TARGET: OFF 10" 12e: TI 1236  SOURCE: CONDUITS (THREE)  DESCRIPTION OF POSTULATED INTERACTION:  Source falls on target.	EVALUATION NOTE NO: 3		
FIRE ZONE: 88A  LOCATION WITHIN FIRE ZONE:  POTENTIAL INTERACTION NO.: I-8-24-4  PHOTOGRAPH NO.: I 66  BACKGROUND NO.: Sheet 20  IDENTIFICATION OF INTERACTION COMPONENTS:  TARGET: OFF 10" 12e: TI 1236  SOURCE: CONDUITS (THREE)  DESCRIPTION OF POSTULATED INTERACTION:  Source falls on target.			
FIRE ZONE: 88A  LOCATION WITHIN FIRE ZCNE:  POTENTIAL INTERACTION NO.: I-8-24-4  PHOTOGRAPH NO.: I 66  BACKGROUND NO.: Sheet 20  IDENTIFICATION OF INTERACTION COMPONENTS:  TARGET: OFF 10" 12e: TI 1236  SOURCE: CONDUITS (THREE)  DESCRIPTION OF POSTULATED INTERACTION:	EVALUATION OF INTERACTION.		
FIRE ZONE: 88A  LOCATION WITHIN FIRE ZONE:  POTENTIAL INTERACTION NO.: I-8-24-4  PHOTOGRAPH NO.: I 66  BACKGROUND NO.: Sheet 20  IDENTIFICATION OF INTERACTION COMPONENTS:  TARGET: OFF 10" 12e: TI 1236  SOURCE: CONDUITS (THREE)	Source falls on target.		
FIRE ZONE: 88A  LOCATION WITHIN FIRE ZONE:  POTENTIAL INTERACTION NO.: I-8-24-4  PHOTOGRAPH NO.: I 66  BACKGROUND NO.: Sheet 20  IDENTIFICATION OF INTERACTION COMPONENTS:  TARGET: OFF 10" 12e: TI 1236	DESCRIPTION OF POSTULATED INTERACTION:		
FIRE ZONE: 88A  LOCATION WITHIN FIRE ZONE:  POTENTIAL INTERACTION NO.: I-8-24-4  PHOTOGRAPH NO.: I 66  BACKGROUND NO.: Sheet 20  IDENTIFICATION OF INTERACTION COMPONENTS:	SOURCE: CONDUITS (THREE)		
FIRE ZONE: 88A  LOCATION WITHIN FIRE ZONE:  POTENTIAL INTERACTION NO.: I-8-24-4  PHOTOGRAPH NO.: I 66  BACKGROUND NO.: Sheet 20	TARGET: OFF 10" 12e: TI 1236		
FIRE ZONE: 88A  LOCATION WITHIN FIRE ZONE:  POTENTIAL INTERACTION NO.: I-8-24-4  PHOTOGRAPH NO.: I 66  BACKGROUND NO.: Sheet 20	IDENTIFICATION OF INTERACTION COMPONENTS:		
FIRE ZONE: 88A  LOCATION WITHIN FIRE ZONE:  POTENTIAL INTERACTION NO.: I-8-24-4  PHOTOGRAPH NO.: I 66			
FIRE ZONE: 88A  LOCATION WITHIN FIRE ZONE:  POTENTIAL INTERACTION NO.: I-8-24-4  PHOTOGRAPH NO.: I 66	BACKGROUND NO.: Sheet 20		
FIRE ZONE: 88A  LOCATION WITHIN FIRE ZONE:  POTENTIAL INTERACTION NO.: I-8-24-4			,
FIRE ZONE: 88A  LOCATION WITHIN FIRE ZONE:	,		
FIRE ZONE: 88A			·
PULL DING.			
	RITI DINC.		

BUILDING: FAN HOUSE

FIRE ZONE: 38A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: 1-8-25-

PHOTOGRAPH NO.: I 66

BACKGROUND NO.: Sheet 20

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1236 SENSING LINE

SOURCE: LIGHT (WALL)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
---UNACCEPTABLE

R DAVERIO

9/21/82

INTERACTION ENGINEER/DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

System	No.	I-8	

	13	_	
Sheet		of	165
_			

BUILDING: FAN HOUSE

FIRE ZONE: 88A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.:

I-8-25-3

PHOTOGRAPH NO.: I 66

BACKGROUND NO.: Sheet 20

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1236 SENSING LINE

SOURCE: LIGHT (CEILING)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R DAVERIO

9/21/82

INTERACTION ENGINEER / DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

BUILDING:

FAN HOUSE

FIRE ZONE:

88A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.:

I-8-25-4

PHOTOGRAPH NO.: I 66

BACKGROUND NO.: Sheet 20

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1236 SENSING LINE

SOURCE: CONDUIT (THREE)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R DAVERIO

9/21/82

INTERACTION ENGINEER / DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 SYSTEMS INTERACTION STUDY FAILURE MODES AND EFFECTS ANALYSIS OF POTENTIALLY UNACCEPTABLE INTERACTIONS

FMEA NUMBER: 8-I-12

Interaction Number(s): I-8-35-3

Fire Zone: 59A

Target Component(s)

Number, Description & Function: FT 1123 HP Sensing Line

Containment recirc fan #33 service water outlet flow.

Postulated Failure Mode(s) and Evaluation:

C-6-(P) See FMEA 8-I-3

Acceptable X / 1 ( ) 2 ( ) 3 ( ) 4 (X)

Potentially Unacceptable/Safety Function Affected

G Durniak 3/24/83

EVALUATING ENGINEER/DATE

J R Price 3/31/83

CHECKED/DATE

BUILDING:	PRIMARY	AUXILIARY	BUILDING
FIRE ZONE:	59A		

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.: 1-8-26-3

PHOTOGRAPH NO.: I 63

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1121 LO P. SENS. LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:
Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE	Y POTENTIALLY UNACCEPTABLE
R DAVERIO 9/21/82	W GRISWOLD 9/23/82
INTERACTION ENGINEER / DATE	VERIFIED/DATE

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.: I-8-27-3

PHOTOGRAPH NO.: I 63

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: Hi P. SENS LINE FT 1121

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R DAVERIO

9/21/82

NINTERACTION ENGINEER / DATE

W GRISWOLD

VERIFIED/DATE

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.:

I-8-28-3

PHOTOGRAPH NO.: I 63

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1122 LO P. SENS. LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

Χ POTENTIALLY ACCEPTABLE -UNACCEPTABLE 9/21/82 W GRISWOLD R DAVERIO INTERACTION ENGINEER / DATE VERIFIED/DATE

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.:

I-8-29 -3

PHOTOGRAPH NO.: I 63

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1122 Hi PSENS. LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

POTENTIALLY ACCEPTABLE -UNACCEPTABLE W GRISWOLD R DAVERIO 9/21/82 9/23/82 INTERACTION ENGINEER / DATE VERIFIED/DATE

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE:

PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.:

I-8-30-1

PHOTOGRAPH NO.: I 61

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1125 LOP. SENS. LINE

SOURCE: LIGHT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

POTENTIALLY ---UNACCEPTABLE

R DAVERIO

9/21/82

INTERACTION ENGINEER / DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

R DAVERTO 9/21/82 INTERACTION ENGINEER/DATE

# POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: PRIMARY AUXILARY BUILDING	
FIRE ZONE: 59A	
LOCATION WITHIN FIRE ZCNE: PIPING PENETRATION TRENCH	
POTENTIAL INTERACTION NO.: I-8-30-2	
PHOTOGRAPH NO.: I 61	
BACKGROUND NO.: Sheet 16	
-	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: FT. 1125 LOP. SENS. LINE	
SOURCE: CONDUITS	
DESCRIPTION OF POSTULATED INTERACTION:	
Source falls on target.	
EVALUATION OF INTERACTION:  EVALUATION NOTE NO: 6	
ACCEPTABLE X POTENTIALL UNACCEPTAB	

Ebasco Services Incorporated

VERIFIED/DATE

NG: PRIMARY AUXILIARY BUILDING
NG: PRIMARY AUXILIARY BUILDIN

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.: I-8-30-3

PHOTOGRAPH NO.: I 63

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1125 LOP. SENS. LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE	Y POTENTIALLY UNACCEPTABLE
R DAVERIO 9/21/82	W GRISWOLD 9/23/82
INTERACTION ENGINEER / DATE	VERIFIED/DATE

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZCNE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.: I-8-31-1

PHOTOGRAPH NO.: I 61

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1125 Hi P. SENS. LINE

SOURCE: LIGHT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R DAVERIO

INTERACTION ENGINEER / DATE ·

W GRISWOLD

VERIFIED/DATE

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.: I-8-31-2

PHOTOGRAPH NO.: I 61

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1125 Hi P. SENS. LINE

SOURCE: CONDUITS

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

INTERACTION ENGINEER / DATE

EVALUATION NOTE NO: 6

POTENTIALLY ACCEPTABLE UNACCEPTABLE W GRISWOLD 9/23/82 R DAVERIO

VERIFIED/DATE

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.: I-8-35-3

PHOTOGRAPH NO.: I 63

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1125 Hi P. SENS. LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R DAVERIO 9/21/82

INTERACTION ENGINEER / DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

BUILDING:

PRIMARY AUXILARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.: 1-8-32-3

PHOTOGRAPH NO.: I 63

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1124 LO P SENS. LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE

POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD

VERIFIED/DATE

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.: I-8-33-3

PHOTOGRAPH NO.: I 63

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1124 Hi P SENS. LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

Х POTENTIALLY ACCEPTABLE -UNACCEPTABLE 9/23/82 W GRISWOLD R DAVERIO INTERACTION ENGINEER / DATE VERIFIED/DATE

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PRIMARY AUXILIARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.: 1-8-34-3

PHOTOGRAPH NO.: I 63

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1123 Lo P SENS LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

POTENTIALLY Х -UNACCEPTABLE W GRISWOLD R DAVERIO INTERACTION ENGINEER / DATE VERIFIED/DATE

BUILDING:

PRIMARY AUXTLIARY BUILDING

FIRE ZONE:

59A

LOCATION WITHIN FIRE ZONE:

PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.: 1-8-35-3

PHOTOGRAPH NO.: I 63

BACKGROUND NO.: Sheet 16

TARGET: FT 1123 Hi. P. SENS. LINE

IDENTIFICATION OF INTERACTION COMPONENTS:

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE

X

POTENTIALLY -UNACCEPTABLE

R DAVERIO

INTERACTION ENGINEER / DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

BUILDING:

PRIMARY AUXILIARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.:

I-8-36-1

PHOTOGRAPH NO.: I 63

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1124

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

POTENTIALLY -UNACCEPTABLE

R DAVERIO

INTERACTION ENGINEER/DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.:

I-8-36-2

PHOTOGRAPH NO.: 1'64

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1124

SOURCE: LINE #830 (Top & center arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

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POTENTIALLY -UNACCEPTABLE

R DAVERIO

9/21/82

W GRISWOLD

9/23/82

INTERACTION ENGINEER / DATE

VERIFIED/DATE

System	No	8
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Sheet	31	of	165
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BUILDING:

PRIMARY AUXILIARY BUILDING

FIRE ZONE:

59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.: I-8-36-3

PHOTOGRAPH NO.: I 64

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1124

SOURCE: LINE # 830

(Top & center arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

9/21/82 R DAVERIO INTERACTION ENGINEER/DATE

W GRISWOLD

VERIFIED/DATE

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.: 1-8-36-4

PHOTOGRAPH NO.: I 64

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1124

SOURCE: LINE #830A (Bottom arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

X

POTENTIALLY -UNACCEPTABLE

R DAVERIO

9/21/82

INTERACTION ENGINEER / DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

BUILDING:

PRIMARY AUXILARY BUILDING

FIRE ZONE:

59A

LOCATION WITHIN FIRE ZONE:

PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.:

I-8-36-5

PHOTOGRAPH NO.: 1 65

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: F T 1124

SOURCE: TWO STATION AIR PIPES (Top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 8

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R DAVERIO

9/21/82

W GRISWOLD

9/23/82

INTERACTION ENGINEER / DATE

VERIFIED/DATE

BUILDING: PRIMARY AUXILARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE:

PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.: I-8-37-1

PHOTOGRAPH NO.: I 63

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1123

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

POTENTIALLY ACCEPTABLE -UNACCEPTABLE

9/21/82 R DAVERIO INTERACTION ENGINEER / DATE W GRISWOLD

9/23/82

VERIFIED/DATE

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PRIMARY AUXILARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.:

1-8-37-2

PHOTOGRAPH NO.: I 64

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1123

SOURCE: LINE #830

(Top & center arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R DAVERIO INTERACTION ENGINEER/DATE W GRISWOLD

VERIFIED/DATE

BUILDING: PRIMARY AUXILARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.: 1-8-37-3

PHOTOGRAPH NO.: I 64

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1123

SOURCE: LINE #830 (Top & center arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

X

POTENTIALLY -UNACCEPTABLE

R DAVERIO

9/21/82

W GRISWOLD

9/23/82

INTERACTION ENGINEER / DATE

VERIFIED/DATE

Sheet	37 c	of	165
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PRIMARY AUXILARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.: I-8-37-4

PHOTOGRAPH NO.: I 64

BACKGROUND NO.:

Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1123

SOURCE: LINE #830A

(Bottom arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R DAVERIO

9/21/82

INTERACTION ENGINEER / DATE

W GRISWOLD

VERIFIED/DATE

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PRIMARY AUXILARY BUILDING

FIRE ZONE:

59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.:

I-8-37-5

PHOTOGRAPH NO.: I 65

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1123

SOURCE:

TWO STATION AIR PIPES (Top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 8

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

INTERACTION ENGINEER/DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

System	No	1-8
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Sheet 39 of 165
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BUILDING: PRIMARY AUXILARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.: I-8-38-1

PHOTOGRAPH NO.: I 63

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1121

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R DAVERIO 9/21/82

INTERACTION ENGINEER / DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

System	No.	
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BUILDING: PRIMARY AUXILARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.: I-8-38-2

PHOTOGRAPH NO.: I 64

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1121

SOURCE: LINE #830 (Top & center arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R DAVERIO 9/21/82

INTERACTION ENGINEER / DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

System	No.	T-8
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BUILDING:

PRIMARY AUXILARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.:

I-8-38-3

PHOTOGRAPH NO.: I 64

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1121

SOURCE: LINE #830

(Top & center arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

X

POTENTIALLY -UNACCEPTABLE

R DAVERIO

INTERACTION ENGINEER / DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

# POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING:	PRIMARY AUXILARY	BUTLDING		
FIRE ZONE:				•
	IN FIRE ZONE:	PIPING PENETRATION	rren <i>c</i> h	
POTENTIAL INT	ERACTION NO.:	I-8-38-4		
PHOTOGRAPH NO	.: I 64			
BACKGROUND NO	.: Sheet 16			
IDENTIFICATIO	N OF INTERACTION	COMPONENTS:		
TARGET:	FT 1121		•	
SOURCE:	LINE #830A	(Bottom arrow)		
	BIND #05011	<u> </u>		
DESCRIPTION O	F POSTULATED INTE	RACTION:		
Source	falls on target.			
EVALUATION OF	INTERACTION:			
EVALUATIO	ON NOTE NO: 7			
		•		DOTENTI AT TV
	ACCEPTABLE		X	POTENTIALLY ——UNACCEPTABLE
•				

Ebasco Services Incorporated

W GRISWOLD

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9/23/82

VERIFIED/DATE

BUILDING:

PRIMARY AUXILARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE:

PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.:

I-8-38-5

PHOTOGRAPH NO.: I 65

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1121

SOURCE: TWO STATION AIR PIPES (Top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 8

POTENTIALLY ACCEPTABLE -UNACCEPTABLE

9/21/82 R DAVERIO INTERACTION ENGINEER / DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

BUILDING:

PRIMARY AUXILARY BUILDING

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.:

I-8-39-1

PHOTOGRAPH NO.: I 63

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1122

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R DAVERIO

9/21/82

INTERACTION ENGINEER / DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

BUILDING: PRIMARY AUXILARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE:

PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.:

1-8-39-2

PHOTOGRAPH NO.: I 64

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1122

LINE #830 (Top & center arrow) SOURCE:

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

POTENTIALLY ACCEPTABLE -UNACCEPTABLE W GRISWOLD R DAVERIO 9/21/82 9/23/82 INTERACTION ENGINEER / DATE VERIFIED/DATE

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PRIMARY AUXILARY BUILDING

FIRE ZONE:

59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.:

I-8-39-3

PHOTOGRAPH NO.: I 64

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1122

SOURCE: LINE #830 (Top & center arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

POTENTIALLY ACCEPTABLE -UNACCEPTABLE 9/23/82 W GRISWOLD R DAVERIO 9/21/82 INTERACTION ENGINEER/DATE VERIFIED/DATE

R DAVERIO

INTERACTION ENGINEER/DATE

9/21/82

## POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

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ACCEPTABLE	X	POTENTIALLYUNACCEPTABLE
EVALUATION NOTE NO: 7		
EVALUATION OF INTERACTION:		·
Source falls on target.		
DESCRIPTION OF POSTULATED INTERACTION:	·	
SOURCE: LINE #830A (Bottom arrow)		
TARGET: FT 1122		
IDENTIFICATION OF INTERACTION COMPONENTS:		•
BACKGROUND NO.: Sheet 16		
PHOTOGRAPH NO.: I 64		
POTENTIAL INTERACTION NO.: I-8-39-4		
LOCATION WITHIN FIRE ZONE: PIPING PENETRATION	TRENCH	
FIRE ZONE: 59A		•
BUILDING: PRIMARY AUXILARY BUILDING		

Ebasco Services Incorporated

VERIFIED/DATE

BUILDING:

PRIMARY AUXILARY BUILDING

FIRE ZONE:

59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.:

I-8-39-5

PHOTOGRAPH NO.: I 65

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1122

SOURCE: TWO STATION AIR PIPES (Top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 8

ACCEPTABLE

POTENTIALLY

-UNACCEPTABLE

R DAVERIO

9/21/82

INTERACTION ENGINEER / DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

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PRIMARY AUXILARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE:

PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.:

I-8-40-5

PHOTOGRAPH NO.: I 63

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

FT 1125

SOURCE:

CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R DAVERIO

9/21/82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

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BUILDING: PRIMARY AUXILARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.:

I-8-40-2

PHOTOGRAPH NO.: I 64

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1125

SOURCE: LINE #830 (Top & center arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R DAVERIO

W GRISWOLD

9/23/82

INTERACTION ENGINEER / DATE

VERIFIED/DATE

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PRIMARY AUXILARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE:

PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.:

I-8-40-3

PHOTOGRAPH NO.: I 64

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

FT 1125 TARGET:

SOURCE: LINE #830 (Top & center arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

POTENTIALLY UNACCEPTABLE W GRISWOLD R DAVERIO INTERACTION ENGINEER/DATE VERIFIED/DATE

BUILDING: PRIMARY AUXILARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.:

I-8-40-4

PHOTOGRAPH NO.: I 64

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1125

SOURCE: LINE #830A (Bottom arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

X

POTENTIALLY -UNACCEPTABLE

R DAVERIO

W GRISWOLD

9/23/82

INTERACTION ENGINEER / DATE

VERIFIED/DATE

BUILDING:

PRIMARY AUXILARY BUILDING

FIRE ZONE:

59A

LOCATION WITHIN FIRE ZONE:

PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.:

1-8-40-5

PHOTOGRAPH NO.: I 65

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1125

SOURCE: TWO STATION AIR PIPES (Top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 8

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R DAVERIO

9/21/82

INTERACTION ENGINEER/DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

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PRIMARY AUXILIARY BUILDING

FIRE ZONE: 17A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.:

I-8-62-1

PHOTOGRAPH NO.: I 70

BACKGROUND NO.: Sheet 39

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 18" #407 PI 1277

SOURCE:

LIGHT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R DAVERIO

INTERACTION ENGINEER / DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

INTERACTION ENGINEER/DATE

### POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING:	PRIMARY AUXILIARY BUILDING		
FIRE ZONE:	17A		
LOCATION WITH	IN FIRE ZONE:		
POTENTIAL INTE	ERACTION NO.: I-8-62-2		
PHOTOGRAPH NO.	: I 71		
BACKGROUND NO.	Sheet 39		
IDENTIFICATION	OF INTERACTION COMPONENTS:		
TARGET:	OFF 18" #407 PI 1277		
SOURCE:	LIGHT		
DESCRIPTION OF	POSTULATED INTERACTION:	•	
Source f	falls on target.		
EVALUATION OF	INTERACTION:		
•			
EVALUATIO	N NOTE NO: 7		-
	•		
	ACCEPTABLE	<u>x</u>	POTENTIALLYUNACCEPTABLE

Ebasco Services Incorporated

· VERIFIED/DATE

System	No.	I-8

Sheet	56	of 165	
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BUILDING:

PRIMARY AUXILIARY BUILDING

FIRE ZONE:

17A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-62-3

PHOTOGRAPH NO.: I 71

BACKGROUND NO.: Sheet 39

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 18" #407 PI 1277

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

X

POTENTIALLY -UNACCEPTABLE

R DAVERIO

9/21/82

INTERACTION ENGINEER/DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

System	No.	I-8
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Sheet 57	of	165
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BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 17A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: 1-8-63-1

PHOTOGRAPH NO.: I 70

BACKGROUND NO.: Sheet 39

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI 1277 SENSING LINE

SOURCE: LIGHT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

POTENTIALLY UNACCEPTABLE

<u>R_DAVERIO</u> 9/21/82

INTERACTION ENGINEER/DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

R DAVERIO

INTERACTION ENGINEER/DATE

9/21/82

## POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING		
FIRE ZONE: 17A	•	
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: I-8-63-2	,	
PHOTOGRAPH NO.: I 71		
BACKGROUND NO.: Sheet 39		
	,	
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: PI 1277 SENSING LINE		
SOURCE: LIGHT		
DESCRIPTION OF POSTULATED INTERACTION:		·
Source falls on target.		
		)
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 7		
•		
ACCEPTABLE	X	POTENTIALLYUNACCEPTABLE

Ebasco Services Incorporated

W GRISWOLD

VERIFIED/DATE

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PRIMARY AUXILIARY BUILDING

FIRE ZONE: 17A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.:

I-8-63-3

PHOTOGRAPH NO.: I 71

BACKGROUND NO.: Sheet 39

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI 1277 SENSING LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

W GRISWOLD

INTERACTION ENGINEER / DATE

VERIFIED/DATE

BUILDING:

PRIMARY AUXILIARY BUILDING

FIRE ZONE:

17A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-64-4

PHOTOGRAPH NO.: I 72, I 73

BACKGROUND NO.: Sheet 39

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 18" #411 PI 1276

SOURCE: LIGHT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R DAVERIO

9/21/82

INTERACTION ENGINEER / DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

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ВU	LЬ.	DTI	NG:

PRIMARY AUXILIARY BUILDING

FIRE ZONE:

17A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: 1-8-64-5

PHOTOGRAPH NO.: I 72, I 73

BACKGROUND NO.: Sheet 39

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 18" #411 PI 1276

SOURCE:

CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

X

POTENTIALLY -UNACCEPTABLE

R DAVERIO 9/21/82 INTERACTION ENGINEER / DATE W GRISWOLD

VERIFIED/DATE

System	No.	T-8	
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INTERACTION ENGINEER / DATE	VERIFIE	D/DATE
R DAVERIO 9/21/82	W GRISWOLD	9/23/82
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
EVALUATION NOTE NO: 7		
EVALUATION OF INTERACTION:		·
Source falls on target.		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: LIGHT		
TARGET: PI 1276 SENSING LINE		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 39		
PHOTOGRAPH NO.: I 72, I 73		
POTENTIAL INTERACTION NO.: 1-8-65-4		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 17A	1	
BUILDING: PRIMARY AUXILIARY BUILDING		

R DAVERIO

INTERACTION ENGINEER / DATE

## POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING:	PRIMARY AUXILIARY BUILDING			
FIRE ZONE:	17A			
LOCATION WITH	IN FIRE ZONE:			
POTENTIAL INTE	ERACTION NO.: I-8-65-5			
PHOTOGRAPH NO.	.: I 72, I 73			
BACKGROUND NO.	Sheet 39			
IDENTIFICATION	OF INTERACTION COMPONENTS:	•	V	
TARGET:	PI 1276 SENSING LINE			
	11 12/0 BENDING BINE		•	
SOURCE:	CONDUIT			
			·	
DESCRIPTION OF	POSTULATED INTERACTION:			
Source	falls on target.			
	•			
EVALUATION OF	INTERACTION:			•
EVALUATIO	n note no: 6			
		,		
	•			
	ACCEPTABLE	————	Х.	POTENTIALLY -UNACCEPTABLE

Ebasco Services Incorporated

W GRISWOLD

VERIFIED/DATE

R DAVERIO

INTERACTION ENGINEER / DATE

## POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING:	PRIMARY AUXILIARY BUILDING		
FIRE ZONE:	27A		
LOCATION WITH	IN FIRE ZONE:		
POTENTIAL INT	ERACTION NO.: I-8-66-1		
PHOTOGRAPH NO	.: I 74, I 75		
BACKGROUND NO	Sheet 46		
IDENTIFICATION	OF INTERACTION COMPONENTS:		
TARGET:	OFF 18" #405 TI 1237		
SOURCE:	LIGHT		
DESCRIPTION OF	F POSTULATED INTERACTION:		
Source	falls on target.	•	
EVALUATION OF	INTERACTION:		
EVALUATIO	N NOTE NO: 7		
	•		DOMPNIM T 4 2 2 2
<del></del>	ACCEPTABLE	X	POTENTIALLY —UNACCEPTABLE

Ebasco Services Incorporated

W GRISWOLD

9/23/82

VERIFIED/DATE

System	No	1 <del>-</del> 8
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BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE:

27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: 1-8-66-2

PHOTOGRAPH NO.: I 74, I75

BACKGROUND NO.: Sheet 46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

OFF 18" #405 TI 1237

SOURCE:

CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R DAVERIO

INTERACTION ENGINEER/DATE

W GRISWOLD

VERIFIED/DATÉ

BUILDING:	PRIMARY	AUXILIARY	BUILDING
FIRE ZONE:	27A		
IOCATION WITHI	מ במדם מי	ONE •	

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.:

I-8-66-3

PHOTOGRAPH NO.: I 74

BACKGROUND NO.: Sheet 46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 18" #405 TI 1237

SOURCE: AUX STEAM LINE 2" #560

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE	X	POTENTIALLY ——UNACCEPTABLE
		t
R DAVERIO 9/21/82	W GRISWOLD	9/23/82
INTERACTION ENGINEER / DATE	VERIF	IED/DATE

BUILDING:

PRIMARY AUXILIARY BUILDING

FIRE ZONE:

27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: 1-8-67-1

PHOTOGRAPH NO.: I 74, I 75

BACKGROUND NO.: Sheet 46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1237 SENSING LINE

SOURCE: LIGHT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

POTENTIALLY ACCEPTABLE -UNACCEPTABLE W GRISWOLD R DAVERIO 9/23/82 INTERACTION ENGINEER / DATE VERIFIED/DATE

Sheet 68	of 165
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System	No.	I-8

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DUL	עע	TN	٠.

PRIMARY AUXILIARY BUILDING

FIRE ZONE:

27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-67-2

PHOTOGRAPH NO.: I 74, I75

BACKGROUND NO.: Sheet 46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1237 SENSING LINE

SOURCE:

CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R DAVERIO

9/21/82

INTERACTION ENGINEER/DATE

W GRISWOLD

VERIFIED/DATE

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-67-3

PHOTOGRAPH NO.: I 74.

BACKGROUND NO.: Sheet 46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1237 SENSING LINE

SOURCE: AUX STEAM LINE 2" #560

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

Х

POTENTIALLY -UNACCEPTABLE

R DAVERIO

W GRISWOLD

9/23/82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE:

27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.:

I-8-68-1

PHOTOGRAPH NO.: I 74, I75

BACKGROUND NO.: Sheet 46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 18" #509 TI 1238

SOURCE: LIGHT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

POTENTIALLY X UNACCEPTABLE W GRISWOLD R DAVERIO 9/21/82 9/23/82 INTERACTION ENGINEER/DATE VERIFIED/DATE

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-68-2

PHOTOGRAPH NO.: I 74, I 75

BACKGROUND NO.: Sheet 46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 18" #509 TI 1238

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target,

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R DAVERIO

INTERACTION ENGINEER / DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-68-3

PHOTOGRAPH NO.: I 74

BACKGROUND NO.: Sheet 46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 18" #509 TI 1238

SOURCE: AUX STEAM LINE 2" #560

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R DAVERIO 9/21/82

INTERACTION ENGINEER / DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

INTERACTION ENGINEER /DATE	VEDIETE	
R DAVERIO 9/21/82	W GRISWOLD	9/23/82
		· ·
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
	•	
EVALUATION NOTE NO: 7		
EVALUATION OF INTERACTION:		•
Source falls on target.	•	
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: LIGHT		
. COVER CET		•
TARGET: TI 1238 SENSING LINE		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 46		
PHOTOGRAPH NO.: I 74, I 75	ı	
POTENTIAL INTERACTION NO.: 1-8-69-1		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 27A		
BUILDING: PRIMARY AUXILIARY BUILDING		
		ï

R DAVERIO

INTERACTION ENGINEER/DATE

## POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING		
FIRE ZONE: 27A		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: I-8-69-2		
PHOTOGRAPH NO.: I 74, I 75		
BACKGROUND NO.: Sheet 46		
•		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: TI 1238 SENSING LINE		
SOURCE: CONDUIT		
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target.		
THAT WARTON OR TWEET OF TON		
EVALUATION OF INTERACTION:	•	
EVALUATION NOTE NO: 7		
	•	
ACCEPTABLE	X	POTENTIALLY
ACOUL LADID	······································	UNACCEPTABLE

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W GRISWOLD

VERIFIED/DATE

R DAVERIO

INTERACTION ENGINEER/DATE

## POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

ACCEPTABLE	X	POTENTIALLY
EVALUATION NOTE NO: 7		
EVALUATION OF INTERACTION:		,
Source falls on target.		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: AUX STEAM LINE 2" #560		
TARGET: TI 1238 SENSING LINE		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 46		
PHOTOGRAPH NO.: I 74		
POTENTIAL INTERACTION NO.: 1-8-69-3		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 27A	•	
BUILDING: PRIMARY AUXILIARY BUILDING	·	

Ebasco Services Incorporated

W GRISWOLD

VERIFIED/DATE

INTERACTION ENGINEER / DATE	VERIFI	ED/DATE
R DAVERIO 9/21/82	W GRISWOLD	9/23/82
X ACCEPTABLE	***	POTENTIALLY UNACCEPTABLE
EVALUATION NOTE NO: 3	•	
EVALUATION OF INTERACTION:	•	·
Source falls on target.		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: THREE CONDUITS		
TARGET: TI 1314		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 67		
PHOTOGRAPH NO.: I 76	·	
POTENTIAL INTERACTION NO.: 1-8-7:-1		
LOCATION WITHIN FIRE ZONE:		-
FIRE ZONE: 14		
BUILDING: CONTROL BUILDING, EL. 15'		

R DAVERIO 9/21/82 INTERACTION ENGINEER/DATE		ED/DATE ·
R DAVERIO 9/21/82	W GRISWOLD	9/23/82
ACCEPTABLE	x	POTENTIALLY UNACCEPTABL
EVALUATION NOTE NO: 7		
EVALUATION OF INTERACTION:		
Source falls on target.		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: STATION AIR PIPE		
TARGET: TI 1314		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 67		
PHOTOGRAPH NO.: I 77	. •	
POTENTIAL INTERACTION NO.: 1-8-71-2		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 14		
FIRE ZONE: 14		

INIERACTION ENGINEER/DATE	VERIFIE	ED/ DATE
R DAVERIO 9/21/82 INTERACTION ENGINEER/DATE	W GRISWOLD	9/23/82
XACCEPTABLE		POTENTIALLY UNACCEPTABLE
EVALUATION NOTE NO: 3		
EVALUATION OF INTERACTION:	·	·
Source falls on target.		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: THREE CONDUITS		
TARGET: TI 1314 SENSING LINE		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 67		
PHOTOGRAPH NO.: I 76		
POTENTIAL INTERACTION NO.: I-8-72-1		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 14		
BUILDING: CONTROL BUILDING, EL.15'		

INTERACTION ENGINEER / DATE VERIFIED / DATE		
R DAVERIO 9/21/82	W GRISWOLD	9/23/82
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
,		
EVALUATION NOTE NO: 7		
EVALUATION OF INTERACTION:		
Source falls on target.		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: STATION AIR PIPE		
TARGET: TI 1314 SENSING LINE		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 67		
PHOTOGRAPH NO.: 1 77		
POTENTIAL INTERACTION NO.: 1-8-72-2		
LOCATION WITHIN FIRE ZCNE:		
FIRE ZONE: 14		
BUILDING: CONTROL BUILDING, EL.15'		

INTERACTION ENGINEER / DATE	VERIFI	ED/DATE
R DAVERIO 9/21/82	W GRISWOLD	9/23/82
X ACCEPTABLE		POTENTIALLY UNACCEPTABLE
EVALUATION NOTE NO: 3	· · · · · · · · · · · · · · · · · · ·	
EVALUATION OF INTERACTION:		
Source falls on target.		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: THREE CONDUITS		
TARGET: TC 1113		
IDENTIFICATION OF INTERACTION COMPONENTS:	·	
BACKGROUND NO.: Sheet 67		
PHOTOGRAPH NO.: I 76, I 78		
POTENTIAL INTERACTION NO.: I-8-73-1		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 14	,	
BUILDING: CONTROL BUILDING, EL. 15'		

INTERACTION ENGINEER / DATE	TARDIE	LED / DATE
R DAVERIO 9/21/82	W GRISWOLD	9/23/82
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
•		
EVALUATION NOTE NO: 7		
EVALUATION OF INTERACTION:		
Source falls on target.		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: STATION AIR PIPE		
TARGET: TC 1113		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 67		
PHOTOGRAPH NO.: I 77		
POTENTIAL INTERACTION NO.: 1-8-73-2		
LOCATION WITHIN FIRE ZONE:	,	
FIRE ZONE: 14		
BUILDING: CONTROL BUILDING, EL. 15'		

INTERACTION ENGINEER / DATE	VERIFIE	D/DATE
R DAVERIO 9/21/82	W GRISWOLD	9/23/82
X ACCEPTABLE		POTENTIALLY ——UNACCEPTABLI
•		
EVALUATION NOTE NO: 3		
EVALUATION OF INTERACTION:		
Source falls on target.		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: THREE CONDUITS		
TARGET: TC 1113 SENSING LINE		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 67		
PHOTOGRAPH NO.: I 76, I 78		
POTENTIAL INTERACTION NO.: I-8-74-1		
LOCATION WITHIN FIRE ZONE:		·
FIRE ZONE: 14		
BUILDING: CONTROL BUILDING, EL. 15'		

INTERACTION ENGINEER / DATE		VER	IFIED/DA	TE
R DAVERIO 9/21/82		W GRISWOLD	9	9/23/82
ACCEPTABLE		Х		POTENTIALLY —UNACCEPTABLE
EVALUATION NOTE NO:				
EVALUATION NOTE NO: 7				
EVALUATION OF INTERACTION:		•		·
Source falls on target.				
DESCRIPTION OF POSTULATED INTERACTION:	ı			
SOURCE: STATION AIR PIPE				
TARGET: TC 1113 SENSING LINE				
IDENTIFICATION OF INTERACTION COMPONENTS:				
BACKGROUND NO.: Sheet 67				• %
POTENTIAL INTERACTION NO.: I-8-74-2 PHOTOGRAPH NO.: I 77				
LOCATION WITHIN FIRE ZONE:	٠			
<del>-</del> '				
CONTROL BUILDING BE, 15				
BUILDING: CONTROL BUILDING EL. 15'				

INTERACTION ENGINEER / DATE

9/23/82

VERIFIED/DATE

### POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILD. EL. 15		
FIRE ZONE: 10		
LOCATION WITHIN FIRE ZONE:		·
POTENTIAL INTERACTION NO.: 1-8-75-1		
PHOTOGRAPH NO.: I 88.		
BACKGROUND NO.: Sheet 76		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: OFF 6" #1096 TI 1281		
SOURCE: LIGHTS (TWO)		
DESCRIPTION OF POSTULATED INTERACTION:	·	
Source falls on target.		
		·
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 7		
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
R DAVERIO 9/21/82	W GRISWOLD	0/23/92

BUILDING: DIESEL GENERATOR BUILD. EL. 15		•
FIRE ZONE: 10		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: I-8-76-1		
PHOTOGRAPH NO.: I 88		
BACKGROUND NO.: Sheet 76		
,		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: TI 1281 SENSING LINE		
SOURCE: LIGHTS (TWO)		
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target.		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 7		
	v	- POTENTIALLY
ACCEPTABLE	<u>X</u>	UNACCEPTABLE
R DAVERIO 9/21/82 INTERACTION ENGINEER/DATE	W GRISWOLD	9/23/82 TIED/DATE
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BUILDING: DIESEL GENERATOR BUILD. EL. 15		
FIRE ZONE: 10		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: I-8-77-1		
PHOTOGRAPH NO.: I 88		
BACKGROUND NO.: Sheet 76		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: OFF 6" #1093 TI 1306		
SOURCE: LIGHTS (TWO)		•
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target.		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 7		
•		
ACCEPTABLE	X	POTENTIALLY
		UNACCEPTABLE
R DAVERIO 9/21/82	W GRISWOLD	9/23/82
INTERACTION ENGINEER / DATE	VERIF	IED/DATE

System	No.	J-8	
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INTERACTION ENGINEER / DATE	VERIFI	ED/DATE
R_DAVERIO 9/21/82	W GRISWOLD	9/23/82
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLI
EVALUATION NOTE NO: 7		
EVALUATION OF INTERACTION:		
Source falls on target.		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: LIGHTS (TWO)		
TARGET: TI 1306 SENSING LINE		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 76		
PHOTOGRAPH NO.: I 88		
POTENTIAL INTERACTION NO.: I-8-78-1		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 10		
BUILDING: DIESEL GENERATOR BUILD, EL. 15		

INTERACTION ENGINEER / DATE	VERIFI	ED/DATE
R DAVERIO 9/21/82	W GRIEWOLD	9/23/82
ACCEPTABLE	x	POTENTIALLY UNACCEPTABLE
	•	
EVALUATION NOTE NO: 7		
EVALUATION OF INTERACTION:		
Source falls on target.		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: LIGHTS (TWO)		•
TARGET: OFF 6" 1097 TI 1282		
IDENTIFICATION OF INTERACTION COMPONENTS:		
	•	
BACKGROUND NO.: Sheet 76	•	
PHOTOGRAPH NO.: I 87		
POTENTIAL INTERACTION NO.: I-8-79-1		-
LOCATION WITHIN FIRE ZCNE:		
FIRE ZONE: 101A		
BUILDING: DIESEL GENERATOR BUILD, EL. 15'		

INTERACTION ENGINEER/DATE

### POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

LVALUATION SHEET		
BUILDING: DIESEL GENERATOR BUILD, EL. 15'		
FIRE ZONE: 101A		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: I-8-80-1	•	
PHOTOGRAPH NO.: I 87		
BACKGROUND NO.: Sheet 76		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: TI 1282 SENSING LINE		
SOURCE: LIGHTS (TWO)		
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target.		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 7		
ACCEPTABLE	х .	POTENTIALLY ——UNACCEPTABLE
R DAVERIO 9/21/82	W GRISWOLD	9/23/82

Ebasco Services Incorporated

System	No.	T-8

Evillon 101		
BUILDING: DIESEL GENERATOR DUILD., EL. 15'		
FIRE ZONE: 101A		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: I-8-81-1		
PHOTOGRAPH NO.: I 87		
BACKGROUND NO.: Sheet 76		
	•	
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: OFF 6" #1094 TI 1307		
SOURCE: LIGHTS (TWO)		
LIGHTS (1WO)		
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target.		
EVALUATION OF INTERACTION:		•
EVALUATION NOTE NO: 7		
A COURTY DE T	X	POTENTIALLY
ACCEPTABLE	Α	UNACCEPTABLE
R DAVERIO 9/21/82	W GRISWOLD	9/23/82
INTERACTION ENGINEER / DATE	VERIFIED/	

INTERACTION ENGINEER / DATE	VERIFIEI	D/DATE
R DAVERIO 9/21/82	W GRISWOLD	9/23/82
ACCEPTABLE	. X	POTENTIALLY UNACCEPTABLI
•	,	
EVALUATION NOTE NO: 7		
EVALUATION OF INTERACTION:		,
Source falls on target.		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: LIGHTS (TWO)		
TARGET: TI 1307 SENSING LINE		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 76		
PHOTOGRAPH NO.: I 87		
POTENTIAL INTERACTION NO.: I-8-82-1		
LOCATION WITHIN FIRE ZONE:	p = -1	
FIRE ZONE: 101A		
`BUILDING: DIESEL GENERATOR BUILD, EL.15 [†]		

INTERACTION ENGINEER / DATE	VERIFI	ED/DATE
R DAVERIO 9/21/82	W GRISWOLD	9/23/82
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
		·
EVALUATION NOTE NO: 7		
EVALUATION OF INTERACTION:		
Source falls on target.		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: LIGHTS (TWO)		
TARGET: OFF 6" 1098 TI 1283		
IDENTIFICATION OF INTERACTION COMPONENTS:		
·		
BACKGROUND NO.: Sheet 76		
PHOTOGRAPH NO.: I 85, I 86	,	
POTENTIAL INTERACTION NO.: I-8-83-1		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 102A		
BUILDING: DIESEL GENERATOR BUILD. EL. 15'		

INTERACTION ENGINEED /DATE	TOTOTO	/DATE
R DAVERIO 9/21/82	W GRISWOLD	9/23/82
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
EVALUATION NOTE NO: 7		
EVALUATION OF INTERACTION:		
Source falls on target.		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: LIGHTS (TWO)		·
TARGET: TI 1283 SENSING LINE		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 76		
PHOTOGRAPH NO.: I 85, I 86		
POTENTIAL INTERACTION NO.: 1-8-84-1		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 102A	•	
BUILDING: DIESEL GENERATOR BUILD. EL. 15'		

BUILDING: DIESEL GENERATOR BUILD. EL. 15'		
FIRE ZONE: 102A		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: I-8-85-1		
PHOTOGRAPH NO.: I 85, I 86		
BACKGROUND NO.: Sheet 76		
IDENTIFICATION OF INTERACTION COMPONENTS:		1
TARGET: OFF 6" 1095 TI 1308		
SOURCE: LIGHTS (TWO)		
•		
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target.		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 7		
•		
ACCEPTABLE	X	POTENTIALLYUNACCEPTABLE

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W GRISWOLD

9/23/82

VERIFIED/DATE

9/21/82

R DAVERIO

INTERACTION ENGINEER/DATE

INTERACTION ENGINEER / DATE	VERIFIED/	DATE
R DAVERIO 9/21/82	W GRISWOLD	9/23/82
ACCEPTABLE	X	POTENTIALLYUNACCEPTABLE
EVALUATION NOTE NO: 7		
EVALUATION OF INTERACTION:		
Source falls on target.		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: LIGHTS (TWO)		
TARGET: TI 1308 SENSING LINE	•	
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 76		
PHOTOGRAPH NO.: I 85, I 86		
POTENTIAL INTERACTION NO.: I-8-86-1		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 102A		
BUILDING: DIESEL GENERATOR BUILD. EL. 15'		

INTERACTION ENGINEER / DATE	VERIFIE	
R DAVERIO 9/21/82	W GRISWOLD	9/23/82
ACCEPTABLE	·x	POTENTIALLY ——UNACCEPTABLE
EVALUATION NOTE NO: 7		
EVALUATION OF INTERACTION:		
Source falls on target.		•
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: CONDUIT		
TARGET: PC OFF ½" SWN 113₺		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 82		
PHOTOGRAPH NO.: I 80, I 81		
POTENTIAL INTERACTION NO.: 1-8-87-1		
LOCATION WITHIN FIRE ZONE: VALVE ROOM		
FIRE ZONE: 36A		
BUILDING: CONTROL BUILDING, EL. 15'		

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BUILDING:	CONTROL	BUILDING,	EL.	15'
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FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: 1-8-87-2

PHOTOGRAPH NO.: 180, 181

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PC OFF. ½" SWN 113B

SOURCE:

WALL HEATER

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

X

POTENTIALLY UNACCEPTABLE

INTERACTION ENGINEER / DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: 1-8-88-1

PHOTOGRAPH NO.: I 80, I 81

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

PC OFF: ½" SWN 113A

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R DAVERIO

INTERACTION ENGINEER/DATE

W GRISWOLD

VERIFIED/DATE

System	No	I-8
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BUILDING: CONTROL BUILDING, EL. 15'
FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: 1-8-88-2

PHOTOGRAPH NO.: 180, I 81

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PC OFF: ½" SWN 113A

SOURCE: WALL HEATER

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

R DAVERIO
9/21/82
INTERACTION ENGINEER/DATE

ACCEPTABLE

W GRISWOLD 9/23/82

VERIFIED/DATE

R DAVERIO

INTERACTION ENGINEER / DATE

9/21/82

## POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: CONTROL DUILDING, EL. 15'  FIRE ZONE: 36A  LOCATION WITHIN FIRE ZONE: VALVE ROOM  POTENTIAL INTERACTION NO.: I-8-89-3  PHOTOGRAPH NO.: I 82  BACKGROUND NO.: Sheet 82
LOCATION WITHIN FIRE ZONE: VALVE ROOM  POTENTIAL INTERACTION NO.: I-8-89-3  PHOTOGRAPH NO.: I 82
POTENTIAL INTERACTION NO.: I-8-89-3  PHOTOGRAPH NO.: I 82
PHOTOGRAPH NO.: I 82
RACYCROUND NO • Sheet 82
BROKGROUND NO Sheet 02
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: OFF 10" 1096 FIC 1176
SOURCE: CONDUITS (FOUR)
DESCRIPTION OF POSTULATED INTERACTION:
·
Source falls on target.
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 3
X ACCEPTABLE POTENTIALLY UNACCEPTABLE

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W GRISWOLD

9/23/82

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: 1-8-90-4

PHOTOGRAPH NO.: I 83

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FIC 1176 LOP. SENSING LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE X POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82 W GRISWOLD 9/23/82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: 1-8-91-3

PHOTOGRAPH NO.: I 82

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: DPC 1134C

SOURCE: CONDUITS (FOUR)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

R DAVERIO 9/21/82

INTERACTION ENGINEER/DATE

POTENTIALLY
UNACCEPTABLE

W GRISWOLD 9/23/82

VERIFIED/DATE

R DAVERIO 9/21/82

INTERACTION ENGINEER / DATE

## POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'		
FIRE ZONE: 36A		
LOCATION WITHIN FIRE ZONE: VALVE ROOM		
POTENTIAL INTERACTION NO.: I-8-92-4		
PHOTOGRAPH NO.: I 83		
BACKGROUND NO.: Sheet 82		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: DPC 1134 H.P. SENSING LINE		
SOURCE: CONDUIT		
DESCRIPTION OF POSTULATED INTERACTION:	,	
Source falls on target.	•	
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 6		
•		D. C. C. C. C. C. C. C. C. C. C. C. C. C.
ACCEPTABLE	X	POTENTIALLY —UNACCEPTABLE

Ebasco Services Incorporated

W GRISWOLD

9/23/82

BUILDING:	CONTROL	BUILDING,	EL.	15'
~~~~~	COLLECT	DUTED T. 10,		

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: 1-8-93-4

PHOTOGRAPH NO.: I 83

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FIC 1176 HiP, SENSING LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

POTENTIALLY ACCEPTABLE -UNACCEPTABLE R DAVERIO 9/21/82 W GRISWOLD 9/23/82 INTERACTION ENGINEER / DATE VERIFIED/DATE

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: 1-8-94-4

PHOTOGRAPH NO.: I 83

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: DPC 1134 L LoP SENSING LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

X POTENTIALLY ACCEPTABLE -UNACCEPTABLE R DAVERIO 9/21/82 W GRISWOLD 9/23/82 INTERACTION ENGINEER/DATE VERIFIED/DATE

ACCEPTABLE	POTENTIALLY UNACCEPTABI
•	
EVALUATION NOTE NO: 7	
EVALUATION OF INTERACTION:	•
bearde faits on target.	
Source falls on target.	
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE: CONDUIT	
TARGET: FOR FCV 1176A: SOV 1276A	
IDENTIFICATION OF INTERACTION COMPONENTS:	
BACKGROUND NO.: Sheet 82	
PHOTOGRAPH NO.: I 84	
POTENTIAL INTERACTION NO.: 1-8-95-1	
LOCATION WITHIN FIRE ZONE: VALVE ROOM	
FIRE ZONE: 36A	
BUILDING: CONTROL BUILDING EL. 15'	

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W GRISWOLD

9/23/82

VERIFIED/DATE

9/21/82

R DAVERIO

INTERACTION ENGINEER/DATE

INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'		
FIRE ZONE: 36A		
LOCATION WITHIN FIRE ZCNE: VALVE ROOM		
POTENTIAL INTERACTION NO.: 1-8-95-2		
PHOTOGRAPH NO.: I 84		
BACKGROUND NO.: Sheet 82		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: FOR FCV 1176A: SOV 1276A		
SOURCE: BOTTLES		
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target.		
EVALUATION OF INTERACTION:		·
EVALUATION NOTE NO: 7		
ACCEPTABLE	X .	POTENTIALLY UNACCEPTABLE
P DAMERTO 9/21/82	W CRISWOID	

Ebasco Services Incorporated

INTERACTION ENGINEER / DATE	VERIFI	ED/DATE
R DAVERIO 9/21/82	W GRISWOLD	9/23/82
ACCEPTABLE	<u>.X</u>	POTENTIALLY UNACCEPTABL
27120112011 NOTE NOTE		
EVALUATION NOTE NO: 7		
EVALUATION OF INTERACTION:		
Source falls on target.		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: WALL HEATER		
TARGET: FOR FCV 1176A: SOV 1276A		•
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 82		·
PHOTOGRAPH NO.: I 84		
POTENTIAL INTERACTION NO.: 1-8-95-3		
LOCATION WITHIN FIRE ZONE: VALVE ROOM		·
FIRE ZONE: 36A		
BUILDING: CONTROL BUILDING, EL. 15'		

ACCEPTABLE X	POTENTIALLY UNACCEPTABI
EVALUATION NOTE NO: 6	
EVALUATION OF INTERACTION:	
Source falls on target.	
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE: CONDUIT	,
TARGET: AIRLINES FROM SOV 1276A to FCV 1176A	
IDENTIFICATION OF INTERACTION COMPONENTS:	
BACKGROUND NO.: Sheet 82	
PHOTOGRAPH NO.: I 84	
POTENTIAL INTERACTION NO.: 1-8-96-1	
LOCATION WITHIN FIRE ZONE: VALVE ROOM	
FIRE ZONE: 36A	
BUILDING: CONTROL BUILDING, EL. 15'	

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9/21/82

R DAVERIO

INTERACTION ENGINEER / DATE

W GRISWOLD

9/23/82

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: 1-8-96-2

PHOTOGRAPH NO.:

I 84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

AIRLINES FROM SOV 1276A to FCV 1176A

SOURCE:

BOTTLES

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R DAVERIO INTERACTION ENGINEER / DATE W GRISWOLD

X

9/23/82

VERIFIED/DATE

INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15' FIRE ZONE: 36A LOCATION WITHIN FIRE ZONE: VALVE ROOM POTENTIAL INTERACTION NO.: I-8-96-3 PHOTOGRAPH NO.: I 84 BACKGROUND NO.: Sheet 82 IDENTIFICATION OF INTERACTION COMPONENTS: TARGET: AIRLINES FROM SOV 1276A TO FCV 1176A SOURCE: WALL HEATER DESCRIPTION OF POSTULATED INTERACTION: Source falls on target. EVALUATION OF INTERACTION: EVALUATION NOTE NO: 7 POTENTIALLY ACCEPTABLE -UNACCEPTABLE W GRISWOLD R DAVERIO

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-UNACCEPTABLE

9/23/82

VERIFIED/DATE

R DAVERIO 9/21/82 INTERACTION ENGINEER/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

Source falls on target.		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: CONDUIT	,	
TARGET: FOR FCV 1176: SOV 1276		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 82		
PHOTOGRAPH NO.: I 84		
POTENTIAL INTERACTION NO.: I-8-97-1		
FIRE ZONE: 36A LOCATION WITHIN FIRE ZONE: VALVE ROOM	,	
BUILDING: CONTROL BUILDING, EL. 15'		

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W GRISWOLD

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: 1-8-97-2

PHOTOGRAPH NO.: I 84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FOR FCV 1176: SOV 1276

SOURCE: BOTTLES

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE X POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82 W GRISWOLD 9/23/82

INTERACTION ENGINEER/DATE VERIFIED/DATE

R DAVERIO

INTERACTION ENGINEER/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL.15'
FIRE ZONE: 36 A
LOCATION WITHIN FIRE ZCNE: VALVE ROOM
POTENTIAL INTERACTION NO.: 1-8-97-3
PHOTOGRAPH NO.: I 84
BACKGROUND NO.: Sheet 82
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: FOR FCV 1176: SOV 1276
SOURCE: WALL HEATER
DESCRIPTION OF POSTULATED INTERACTION:
Source falls on target.
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 7
ACCEPTABLE X POTENTIALLY UNACCEPTABLE

W GRISWOLD

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36 A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-98-1

PHOTOGRAPH NO.: I 84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

AIRLINES FROM SOV 1276 TO FCV 1176

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

POTENTIALLY ACCEPTABLE -UNACCEPTABLE W GRISWOLD R DAVERIO 9/21/82

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المتناز البيار بالمتعاول فالمحافظ فيتمضع فيما والمنتهج ليزارهما الحاج أأدار الداخ فالمحافظ فالمحافظ المحافظ المحادي

INTERACTION ENGINEER / DATE

EVALUATION SHIEL		
•		
BUILDING: CONTROL BUILDING, EL. 15'		
FIRE ZONE: 36 A		
LOCATION WITHIN FIRE ZONE: VALVE ROOM		
POTENTIAL INTERACTION NO.: I-8-98-2		
PHOTOGRAPH NO.: I 84		
BACKGROUND NO.: Sheet 82		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: AIRLINES FRO SOV 1276 TO FCV 1176		
SOURCE: BOTTLES		
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target.		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 7		
•	X	POTENTIALLY
ACCEPTABLE		UNACCEPTABLE
P. DAMEDIO 9/21/82	W GRISWOLD	9/23/82
R DAVERIO 9/21/82 INTERACTION ENGINEER/DATE	W GRISWOLD VERIFIE	

INTERACTION ENGINEER/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'		
FIRE ZONE: 36A		
LOCATION WITHIN FIRE ZONE: VALVE ROOM	•	
POTENTIAL INTERACTION NO.: 1-8-98-3		
PHOTOGRAPH NO.: I 84		
BACKGROUND NO.: Sheet 82		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: AIRLINES FRO SOV 1276 TO FCV 1176		
SOURCE: WALL HEATER		
DESCRIPTION OF POSTULATED INTERACTION:	·	
Source falls on target.		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 7		
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
R DAVERIO 9/21/82	W GRISWOLD	9/23/82

Ebasco Services Incorporated

9/23/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION **EVALUATION SHEET**

BUILDING: CONTROL BUILDING, EL. 15'		
FIRE ZONE: 36 A		
LOCATION WITHIN FIRE ZONE: VALVE ROOM		
POTENTIAL INTERACTION NO.: I-8-99-1		
PHOTOGRAPH NO.: I 84 BACKGROUND NO.: Sheet 82		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: SOV 1275		
SOURCE: CONDUIT		
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target.	•	
EVALUATION OF INTERACTION:	,	·
EVALUATION NOTE NO: 7		
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
R DAVERIO 9/21/82	w GRISWOLD	9/23/82

Ebasco Services Incorporated

9/21/82

INTERACTION ENGINEER/DATE

R DAVERIO

INTERACTION ENGINEER/DATE

9/21/82

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'
FIRE ZONE: 36A
LOCATION WITHIN FIRE ZONE: VALVE ROOM
POTENTIAL INTERACTION NO.: I-8-99-2
PHOTOGRAPH NO.: I 84
BACKGROUND NO.: Sheet 82
·
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: SOV 1275
SOURCE: BOTTLES
DESCRIPTION OF POSTULATED INTERACTION:
Source falls on target.
EVALUATION OF INTERACTION: EVALUATION NOTE NO:
ACCEPTABLE X POTENTIALLY UNACCEPTABLE

Ebasco Services Incorporated

W GRISWOLD

INTERACTION ENGINEER/DATE	VERIFI	ED/DATE
R DAVERIO 9/21/82	W GRISWOLD	9/23/82
ACCEPTABLE	X	POTENTIALLYUNACCEPTABLE
•		,
EVALUATION NOTE NO: 7		
EVALUATION OF INTERACTION:		·
Source falls on target.		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: WALL HEATER		
TARGET: SOV 1275		
IDENTIFICATION OF INTERACTION COMPONENTS:		,
• ,		
BACKGROUND NO.: Sheet 82		
PHOTOGRAPH NO.: I 84		
POTENTIAL INTERACTION NO.: 1-8-99-3		
LOCATION WITHIN FIRE ZONE: VALVE ROOM		
FIRE ZONE: 36A		
BUILDING: CONTROL BUILDING, EL. 15'		

INTERACTION ENGINEER / DATE	VERIFI	ED/DATE
R DAVERIO 9/21/82	W GRISWOLD	9/23/82
		UNACCEPTABLE
ACCEPTABLE	X	POTENTIALLY
•		
EVALUATION NOTE NO: 6		
EVALUATION OF INTERACTION:		
Source falls on target.		
DESCRIPTION OF POSTULATED INTERACTION:		
DECODEDWION OF DOGWY AND THE TOWN		
SOURCE: CONDUIT		
TARGET: AIRLINE FROM FIC 1176 TO SOV	1275	
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 82		
PHOTOGRAPH NO.: I 84		
POTENTIAL INTERACTION NO.: 1-8-100-1		
LOCATION WITHIN FIRE ZONE: VALVE ROOM		
FIRE ZONE: 36A		
BUILDING: CONTROL BUILDING, EL. 15'		

INTERACTION ENGINEER/DATE	VERIFIE	
R DAVERIO 9/21/82	W GRISWOLD	9/23/82
ACCEPTABLE	X .	POTENTIALLY UNACCEPTABL
EVALUATION NOTE NO: 7		
EVALUATION OF INTERACTION:		
Source falls on target.		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: BOTTLES		
TARGET: AIRLINE FROM FIC 1176 TO SOV 1	275	
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 82		
PHOTOGRAPH NO.: I 84		
POTENTIAL INTERACTION NO.: 1-8-100-2		
LOCATION WITHIN FIRE ZONE: VALVE ROOM		
FIRE ZONE: 36A		
BUILDING: CONTROL BUILDING, EL. 15'		

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-100-3

PHOTOGRAPH NO.: I 84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

AIRLINE FROM FIC 1176 TO SOV 1275

SOURCE:

WALL HEATER

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

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POTENTIALLY -UNACCEPTABLE

R DAVERIO 9/21/82 INTERACTION ENGINEER/DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

System	No.	1-8
Uy 3 L EIII	MO.	1-8

INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'		
FIRE ZONE: 36A		
LOCATION WITHIN FIRE ZONE: VALVE ROOM	•	
POTENTIAL INTERACTION NO.: 1-8-101-1		
PHOTOGRAPH NO.: I 84	•	
BACKGROUND NO.: Sheet 82		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: AIRLINE FROM SOV 1275 TO POS.		
SOURCE: CONDUIT		
DROGRIDATION OF BOOMS (BB) THE TOTAL		
DESCRIPTION OF POSTULATED INTERACTION:		۰
Source falls on target.		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 6		
•	X	POTENTIALLY
ACCEPTABLE	X	UNACCEPTABLE
D DAMEDTO 0/25/02	LI CRICUOID	

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BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-101-2

PHOTOGRAPH NO.: I 84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: AIRLINE FROM SOV 1275 TO ROS.

SOURCE:

BOTTLES

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

POTENTIALLY ACCEPTABLE -UNACCEPTABLE R DAVERIO 9/21/82 W GRISWOLD 9/23/82 INTERACTION ENGINEER/DATE VERIFIED/DATE

INTERACTION ENGINEER / DATE	VERIFI	ED/DATE
R DAVERIO 9/21/82	W GRISWOLD	9/23/82
ACCEPTABLE	Х	POTENTIALLY UNACCEPTABLI
EVALUATION NOTE NO: 7		
EVALUATION OF INTERACTION:		•
Source falls on target.		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: WALL HEATER		
TARGET: AIRLINE FROM SOV 1275 TO POS.		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 82		
PHOTOGRAPH NO.: I 84		
POTENTIAL INTERACTION NO.: I-8-101-3		
LOCATION WITHIN FIRE ZCNE: VALVE ROOM		
FIRE ZONE: 36A		•
BUILDING: CONTROL BUILDING, EL. 15'		

INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'		
FIRE ZONE: 36A		
LOCATION WITHIN FIRE ZONE: VALVE ROOM		
POTENTIAL INTERACTION NO.: I-8-102-1		
PHOTOGRAPH NO.: I 84		
BACKGROUND NO.: Sheet 82		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: SOV 1274		
SOURCE: CONDUIT		
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target.		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 7		
ACCEPTABLE	X	POTENTIALLYUNACCEPTABLE
R DAVERIO 9/21/82	W GRISWOLD	

Ebasco Services Incorporated

R DAVERIO 9/21/82

INTERACTION ENGINEER/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'	
FIRE ZONE: 36A	
LOCATION WITHIN FIRE ZONE: VALVE ROOM	•
POTENTIAL INTERACTION NO.: I-8-102-2	
PHOTOGRAPH NO.: I 84	
BACKGROUND NO.: Sheet 82	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: SOV 1274	
SOURCE: BOTTLES	
DESCRIPTION OF POSTULATED INTERACTION:	
Source falls on target.	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 7	•
ACCEPTABLE	POTENTIALLY

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W GRISWOLD

9/23/82

R DAVERIO 9/21/82 INTERACTION ENGINEER/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'		
FIRE ZONE: 36A		
LOCATION WITHIN FIRE ZONE: VALVE ROOM		
POTENTIAL INTERACTION NO.: 1-8-102-3		
PHOTOGRAPH NO.: 1-84		
BACKGROUND NO.: Sheet 82		
IDENTIFICATION OF INTERACTION COMPONENTS:		•
TARGET: SOV 1274		
SOURCE: WALL HEATER		
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target.		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 7	e .	
		·
ACCEPTABLE	X	POTENTIALLYUNACCEPTABLE

Ebasco Services Incorporated

W GRISWOLD

9/23/82

BUILDING: CONTOL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: 1-8-103-1

PHOTOGRAPH NO.: I 84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: AIRLINE FROM FIC 1176 TO SOV 1274

SOURCE:

CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R DAVERIO

9/21/82

W GRISWOLD

9/23/82

INTERACTION ENGINEER / DATE

VERIFIED/DATE

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-103-2

PHOTOGRAPH NO.: I-84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: AIRLINE FROM FIC 1176 TO SOV 1274

SOURCE: BOTTLES

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ACCEPTABLE X

R DAVERIO 9/21/82 W GRISWOLD 9/23/82

INTERACTION ENGINEER / DATE

VERIFIED/DATE

POTENTIALLY

-UNACCEPTABLE

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-103-3

PHOTOGRAPH NO.: I 84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: AIRLINE FROM FIC 1176TO SOV 1274

SOURCE: WALL HEATER

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

R DAVERIO 9/21/82

INTERACTION ENGINEER/DATE

POTENTIALLY
W GRISWOLD 9/23/82
VERIFIED/DATE

EVALUATION SH	EE1	
BUILDING: CONTROL BUILDING, EL. 15'		
FIRE ZONE: 36 A	·	
LOCATION WITHIN FIRE ZONE: VALVE ROOM		
POTENTIAL INTERACTION NO.: I-8-104-1		
PHOTOGRAPH NO.: I 84		
BACKGROUND NO.: Sheet 82		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: AIRLINE FROM SOV 1274 TO POS		
SOURCE: CONDUIT		
00.12011		
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target.		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 6		
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
R DAVERIO 9/21/82 INTERACTION ENGINEER/DATE	W GRISWOLD	9/23/82

BUILDING:	CONTROL	BUILDING,	EL.	15
FIRE ZONE:	36A			

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: 1-8-104-2

PHOTOGRAPH NO.: J 84

BACKGROUND NO.: Sheet 85

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: AIRLINE FROM SOV 1274 TO POS

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE	X	POTENTIALLYUNACCEPTABLE
	•	ONACCEI TABLE
R DAVERIO 9/21/82	W GRISWOLD	9/23/82
INTERACTION ENGINEER / DATE	VERTEIR	D/DATE

BUILDING:	CONTROL	BUILDING,	EL.	15'
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FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-104-3

PHOTOGRAPH NO.: I 84

11 110..

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

AIRLINE FROM SOV 1274 TO POS

SOURCE:

WALL HEATER

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

R DAVERIO 9/21/82

INTERACTION ENGINEER/DATE

X POTENTIALLY UNACCEPTABLE

W GRISWOLD 9/23/82

VERIFIED/DATE

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE: CORRIDER OUTSIDE VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-105-1

PHOTOGRAPH NO.: I 79

BACKGROUND NO.: Sheet 66

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI SENSING LINE

SOURCE: LIGHT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R DAVERIO

9/21/82

W GRISWOLD

9/23/82

INTERACTION ENGINEER / DATE

VERIFIED/DATE

R DAVERIO

INTERACTION ENGINEER/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15' FIRE ZONE: 14 LOCATION WITHIN FIRE ZONE: CORRIDER OUTSIDE VALVE ROOM POTENTIAL INTERACTION NO.: I-8-105-2 PHOTOGRAPH NO.: I 79 BACKGROUND NO.: Sheet 66 IDENTIFICATION OF INTERACTION COMPONENTS: TARGET: PI SENSING LINE SOURCE: CONDUITS (TWO) DESCRIPTION OF POSTULATED INTERACTION: Source falls on target. EVALUATION OF INTERACTION: EVALUATION NOTE NO: 6 POTENTIALLY ACCEPTABLE -UNACCEPTABLE

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W GRISWOLD

BUILDING	3:
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CONTROL BUILDING, EL 15'

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE: CORRIDER OUTSIDE VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-106-1

PHOTOGRAPH NO.: I 79

BACKGROUND NO.: Sheet 66

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI SENSING LINE

SOURCE: LIGHT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

POTENTIALLY ACCEPTABLE -UNACCEPTABLE W GRISWOLD R DAVERIO 9/21/82 9/23/82 INTERACTION ENGINEER/DATE VERIFIED/DATE

BUILDING: CONTROL BUILDING, EL 15'

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE: CORRIDER OUTSIDE VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-106-2

PHOTOGRAPH NO.: I 79

BACKGROUND NO.: Sheet 66

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI SENSING LINE

SOURCE: CONDUITS (TWO)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R DAVERIO 9/21/82

W GRISWOLD

9/23/82

INTERACTION ENGINEER / DATE

VERIFIED/DATE

BUILDING:

TURBINE BUILDING, EL. 15'

FIRE ZONE:

41A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-107-1

PHOTOGRAPH NO.: * NO PICTURES, POSTULATE BUILDING FAILURE

BACKGROUND NO.:

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

PT 1191

SOURCE:

TURBINE BLDG NON SEISMIC AREA

DESCRIPTION OF POSTULATED INTERACTION:

Building Failure

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

X POTENTIALLY ACCEPTABLE -UNACCEPTABLE 9/21/82 9/23/82 R DAVERIO W GRISWOLD INTERACTION ENGINEER / DATE VERIFIED/DATE

INTERACTION ENGINEER/DATE	VERIFI	ED/DATE
R DAVERIO 9/21/82	W GRISWOLD	9/2 1 /82
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
EVALUATION NOTE NO:		
EVALUATION OF INTERACTION:		
Building Failure		
DESCRIPTION OF POSTULATED INTERACTION:		
TURBINE BLDG NON SEISHIC AREA		•
SOURCE: TURBINE BLDG NON SEISMIC ÁREA		
TARGET: PT 1191 SENSING LINE		
IDENTIFICATION OF INTERACTION COMPONENTS:		
		·
BACKGROUND NO.:		
PHOTOGRAPH NO.: * NO PICTURES, POSTULATE BUI	LDING FAILURE	
POTENTIAL INTERACTION NO.: 1-8-108-1		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 41A		
BUILDING: TURBINE BUILDING, EL. 15'		

INTERACTION ENGINEER / DATE	VERIFI	ED/DATE
R DAVERIO 9/21/82	W GRISWOLD	9/2 3 /82
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
EVALUATION NOTE NO:		
EVALUATION OF INTERACTION:		,
<u> </u>	ર.	
Building Failure		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: TURBINE BLDG NON SEISMIC AREA		
TARGET: PC 1111AS	•	
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.:		
PHOTOGRAPH NO.: * NO PICTURES, POSTULATE BU	ILDING FAILURE	
POTENTIAL INTERACTION NO.: I-8-109-1		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 41A		
BUILDING: TURBINE BUILDING, EL. 15'		

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INTERACTION ENGINEER/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: TURBINE BUILDING, EL. 15'		
FIRE ZONE: 41A		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: I-8-110-1		
PHOTOGRAPH NO.: * NO PICTURES, POSTULATE BUILD	ING FAILURE	
BACKGROUND NO.:		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: PC 1111AS SENSING LINE		
SOURCE: TURBINE BLDG NON SEISMIC AREA		
DESCRIPTION OF POSTULATED INTERACTION:		
Building Failure		
EVALUATION OF INTERACTION:		•
EVALUATION NOTE NO:		
ACCEPTABLE	X	POTENTIALLY
ACCEFIABLE		UNACCEPTABLE
R DAVIERO 9/21/82	W GRISWOLD	9./23/82

Ebasco Services Incorporated

INTERACTION ENGINEER / DATE	VERIFI:	ED/DATE
R DAVERIO 9/21/82	W GRISWOLD	9/23/82
ACCEPTABLE	X-	POTENTIALLY UNACCEPTABLE
EVALUATION NOTE NO:		
EVALUATION OF INTERACTION:		
Building Failure		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: TURBINE BLDG NON SEISMIC AREA	·	
TARGET: PC 1111B S		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.:	IDINO INIDENE	
PHOTOGRAPH NO.: * NO PICTURES, POSTULATE BUT	HIDING FAILURE	
LOCATION WITHIN FIRE ZONE: POTENTIAL INTERACTION NO.: I-8-111-1		
· 		
		
BUILDING: TURBINE BUILDING, EL. 15'		

INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: TURBINE BUILDING, EL. 15' FIRE ZONE: 41A LOCATION WITHIN FIRE ZONE: POTENTIAL INTERACTION NO.: 1-8-112-1 PHOTOGRAPH NO.: * NO PICTURES, POSTULATE BUILDING FAILURE BACKGROUND NO.: IDENTIFICATION OF INTERACTION COMPONENTS: TARGET: PC 1111 BS SENSING LINE SOURCE: TURBINE BLDG NON SEISMIC AREA DESCRIPTION OF POSTULATED INTERACTION: Building Failure EVALUATION OF INTERACTION: EVALUATION NOTE NO: POTENTIALLY ACCEPTABLE -UNACCEPTABLE W GRISWOLD R DAVERIO 9/21/82

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BUILDING: TURBINE BUILDING, EL. 15'
FIRE ZONE: 41A
LOCATION WITHIN FIRE ZONE:
POTENTIAL INTERACTION NO.: I-8-113-1
PHOTOGRAPH NO.: * NO PICTURES, POSTULATE BUILDING FAILURE
BACKGROUND NO.:
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: PT 1190
SOURCE: TURBINE BLDG NON SEISMIC AREA
DESCRIPTION OF POSTULATED INTERACTION:
Building Failure
,
EVALUATION OF INTERACTION:
EVALUATION NOTE NO:
•
ACCEPTABLE X POTENTIALLY UNACCEPTABLE

Ebasco Services Incorporated

9/21/82

R DAVERIO

INTERACTION ENGINEER/DATE

W GRISWOLD

9/23/82

BUILDING: TURBINE BUILDING, EL. 15'
FIRE ZONE: 41A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: 1-8-114-1

PHOTOGRAPH NO.: * NO PICTURES, POSTULATE BUILDING FAILURE

BACKGROUND NO.:

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PT 1190 SENSING LINE

SOURCE: TURBINE BLDG NON SEISMIC AREA

DESCRIPTION OF POSTULATED INTERACTION:

Building Failure

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE	X	POTENTIALLY ——UNACCEPTABLE
R DAVERIO 9/21/82	W GRISWOLD	9/23/82
INTERACTION ENGINEER/DATE	VERIFI	ED/DATE

INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: TURBINE BUILDING	, EL. 15'		
FIRE ZONE: 41A			
LOCATION WITHIN FIRE ZONE:			
POTENTIAL INTERACTION NO.:	I-8-115 - 1		
PHOTOGRAPH NO.: * NO PICTURES	s, POSTULATE BUII	LDING FAILURE	•
BACKGROUND NO.:			
IDENTIFICATION OF INTERACTION	COMPONENTS:	:	
TARGET: PC 1112 AS			
SOURCE: TURBINE BLDG NON	SEISMIC AREA		,
DESCRIPTION OF POSTULATED INTE	RACTION:	·	
Building Failure			
EVALUATION OF INTERACTION:			·
EVALUATION NOTE NO:			
,			
ACCEPTABLE	•	X	POTENTIALLY UNACCEPTABLE
R DAVERIO 9/21/82		W GRISWOLD	0/23/82

Ebasco Services Incorporated

System	No	
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Sheet	149	of	165

BUILDING:

TURBINE BUILDING, EL. 15'

FIRE ZONE:

41A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-116-1

PHOTOGRAPH NO.: * NO PICTURES, POSTULATE BUILDING FAILURE

BACKGROUND NO.:

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PC 1112 AS SENSING LINE

SOURCE: TURBINE BLDG NON SEISMIC AREA

DESCRIPTION OF POSTULATED INTERACTION:

Building Failure

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

POTENTIALLY ACCEPTABLE UNACCEPTABLE R DAVERIO 9/21/82 9/23/82 W GRISWOLD INTERACTION ENGINEER / DATE VERIFIED/DATE

System	No.	I-8
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INTERACTION ENGINEER / DATE

9./23/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION **EVALUATION SHEET**

BUILDING:	TURBINE BUILDING, EL 15'		·
FIRE ZONE:	41A		
LOCATION WITH	IN FIRE ZONE:		
POTENTIAL INT	ERACTION NO.: I-8-117-1		
PHOTOGRAPH NO	.: *NO PICTURES, POSTULATE BUIL	DING FAILURE	
BACKGROUND NO	• :		
IDENTIFICATIO	N OF INTERACTION COMPONENTS:		
TARGET:	PC 1112 B S		
SOURCE:	TURBINE BLDG NON SEISMIC AREA		
DESCRIPTION O	F POSTULATED INTERACTION:		
Buildir	ng Failure		
EVALUATION OF	INTERACTION:		
EVALUATIO	ON NOTE NO:		
	ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
R DAVER	10 9/21/82	W GRISWOLD	9/23/82

System	No.	T-8

R DAVERIO 9/21/82

INTERACTION ENGINEER / DATE

Sheet	151	of	165

-UNACCEPTABLE

9/23/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: TURBINE BUILDING, EL. 15' FIRE ZONE: 41A LOCATION WITHIN FIRE ZONE: POTENTIAL INTERACTION NO.: I-8-118-1 PHOTOGRAPH NO.: * NO PICTURES, POSTULATE BUILDING FAILURE BACKGROUND NO.: IDENTIFICATION OF INTERACTION COMPONENTS: TARGET: PC 1112 BS SENSING LINE SOURCE: TURBINE BLDG NON SEISMIC AREA DESCRIPTION OF POSTULATED INTERACTION: Building Failure EVALUATION OF INTERACTION: EVALUATION NOTE NO: POTENTIALLY ACCEPTABLE

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W GRISWOLD

BUILDING:

VALVE PIT, AT INTAKE STRUCTURE

FIRE ZONE: NA (ADJACENT TO FIRE ZONE 22)

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-119-3

PHOTOGRAPH NO.: I 90, I 91

BACKGROUND NO.: Sheet 53

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PT 1191 SENSING LINE

SOURCE: LIGHT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

POTENTIALLY ACCEPTABLE -UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE 9/21/82 W GRISWOLD

9/23/82

VERIFIED/DATE

BUILDING: VALVE PIT AT INTAKE STRUCTURE

FIRE ZONE: NA (ADJACENT TO FIRE ZONE 22)

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-119-4

PHOTOGRAPH NO.: I 90. I 91

BACKGROUND NO.: Sheet 53

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PT 1191 SENSING LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE

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POTENTIALLY -UNACCEPTABLE

R DAVERIO

9/21/82

INTERACTION ENGINEER/DATE

W GRISWOLD

9/23/82

System No	•T_8
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Shee	et.	154	of	165

BUILDING:

VALVE PIT AT INTAKE STRUCTURE

FIRE ZONE:

NA (ADJACENT TO FIRE ZONE)

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: 1-8-120-1

PHOTOGRAPH NO.: I 89

BACKGROUND NO.: Sheet 53

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PT 1190 SENSING LINE

SOURCE: Light

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

POTENTIALLY ACCEPTABLE -UNACCEPTABLE

R DAVERIO 9/21/82 INTERACTION ENGINEER / DATE

W GRISWOLD 9/23/82 VERIFIED/DATE

BUILDING: VALVE PIT AT INTAKE STRUCTURE

FIRE ZONE: NA (ADJACENT TO FIRE ZONE 22)

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-120-2

PHOTOGRAPH NO.: I 89

BACKGROUND NO.: Sheet 53

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PT 1190 SENSING LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

INTERACTION ENGINEER / DATE

EVALUATION NOTE NO: 6

POTENTIALLY ACCEPTABLE -UNACCEPTABLE R DAVERIO W GRISWOLD 9/21/82 9/23/82

Ebasco Services Incorporated

. INTERACTION ENGINEER / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

X	POTENTIALLY
	DOMPNIMY :
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Ebasco Services Incorporated

BUILDING:

INTAKE STRUCTURE, EL. 9'

FIRE ZONE:

22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-121-2

PHOTOGRAPH NO.:

I 93

BACKGROUND NO.: Sheet 80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI 1273

SOURCE: LIGHT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

χ

POTENTIALLY -UNACCEPTABLE

R DAVERIO

INTERACTION ENGINEER / DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

BUILDING:

INTAKE STRUCTURE, EL. 9'

FIRE ZONE:

22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-122-1

PHOTOGRAPH NO.: I 94

BACKGROUND NO.: Sheet 80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI 1273 SENSING LINE

SOURCE: 8" SCREEN WASH HEADER

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

- POTENTIALLY ACCEPTABLE -UNACCEPTABLE W GRISWOLD R DAVERIO 9/21/82 9/23/82 INTERACTION ENGINEER/DATE VERIFIED/DATE

R DAVERIO

INTERACTION ENGINEER / DATE

9/23/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION **EVALUATION SHEET**

ACCEPTA	ADLE	W GRISWOLD	UNACCEPTABLI
ACCEPTA	DIE	37	POTENTIALLY
EVALUATION NOTE NO:	7		
EVALUATION OF INTERACTIO	DN:		•
Source falls on t	arget.		
DESCRIPTION OF POSTULATE	ED INTÉRACTION:		
SOURCE: LIGHT			
TARGET: PI 1273 SI	ENSING LINE	·	
IDENTIFICATION OF INTERA	ACTION COMPONENTS:	,	
BACKGROUND NO.: Sheet	80		•
PHOTOGRAPH NO.: I 93			
POTENTIAL INTERACTION NO	D.: I-8-122-2		
LOCATION WITHIN FIRE ZON	NE:		
FIRE ZONE: 22			
BUILDING: INTAKE STI	RUCTURE, EL. 9'		

R DAVERTO 9/21/82
INTERACTION ENGINEER/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

•			
INTAKE STRUCTURE, EL. 9'			
22		,	
IN FIRE ZCNE:			
ERACTION NO.: I-8-123-1			
.: I 92			
.: Sheet 80			·
•			
N OF INTERACTION COMPONENTS:			
PI 1274			
8" SCREEN WASH HEADER	•		
F POSTULATED INTERACTION:			
falls on target.			,
INTERACTION:			
-		•	
on note no:			
•			
ACCEPTABLE		X	POTENTIALLYUNACCEPTABLI
			UNACCEI IADLI
	IN FIRE ZONE: ERACTION NO.: I-8-123-1 .: I 92 .: Sheet 80 N OF INTERACTION COMPONENTS: PI 1274 8" SCREEN WASH HEADER F POSTULATED INTERACTION: falls on target. INTERACTION: ON NOTE NO: 7	IN FIRE ZONE: ERACTION NO.: I-8-123-1 .: I 92 .: Sheet 80 N OF INTERACTION COMPONENTS: PI 1274 8" SCREEN WASH HEADER F POSTULATED INTERACTION: falls on target. INTERACTION: ON NOTE NO: 7	IN FIRE ZONE: ERACTION NO.: I-8-123-1 .: I 92 .: Sheet 80 N OF INTERACTION COMPONENTS: PI 1274 8" SCREEN WASH HEADER F POSTULATED INTERACTION: falls on target. INTERACTION: ON NOTE NO: 7

Ebasco Services Incorporated

BUILDING: INTAKE STRUCTURE, EL. 9'		
FIRE ZONE: 22		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: I-8-124-1		
PHOTOGRAPH NO.: I 92		
BACKGROUND NO.: Sheet 80	·	
IDENTIFICATION OF INTERACTION COMPONENTS:		•
TARGET: PI 1276 SENSING LINE		
		•
SOURCE: 8" SCREEN WASH HEADER		
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target.		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO:		
DVINGILLON HOLL NO.		
•		
ACCEPTABLE	Х	POTENTIALLYUNACCEPTABLE
•		
R DAVERIO 9/21/82 INTERACTION ENGINEER/DATE	W GRISWOLD	9/23/82 TIED/DATE
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R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

9/23/82

VERIFIED/DATE

W GRISWOLD

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY NONCONNECTED SYSTEMS INTERACTION EVALUATION SHEET

BUILDING: INTAKE STRUCTURE, EL. 9 FIRE ZONE: 22 LOCATION WITHIN FIRE ZONE: POTENTIAL INTERACTION NO.: I-8-127-1 PHOTOGRAPH NO.: I 96 BACKGROUND NO.: Sheet 80 IDENTIFICATION OF INTERACTION COMPONENTS: TARGET: PI 1192 SOURCE: 8" SCREEN WASH HEADER DESCRIPTION OF POSTULATED INTERACTION: Source falls on target. EVALUATION OF INTERACTION: EVALUATION NOTE NO: 7 POTENTIALLY ACCEPTABLE -UNACCEPTABLE

BUILDING: INTAKE STRUCTURE, EL. 9

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-128-1

PHOTOGRAPH NO.: I 96

BACKGROUND NO.: Sheet 80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI 1192 SENSING LINE

SOURCE: 8" SCREEN WASH HEADER

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

X POTENTIALLY ACCEPTABLE -UNACCEPTABLE 9/21/82 9/23/82 W GRISWOLD R DAVERIO INTERACTION ENGINEER / DATE VERIFIED/DATE

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Control of the Contro

BUILDING:

INTAKE STRUCTURE, EL. 9

FIRE ZONE:

22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-131-1

PHOTOGRAPH NO.: I 95

BACKGROUND NO.: Sheet 80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI 1191

SOURCE:

8" SCREEN WASH HEADER

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

POTENTIALLY ACCEPTABLE -UNACCEPTABLE 9/23/82 R DAVERIO 9/21/82 INTERACTION ENGINEER/DATE

VERIFIED/DATE

INTERACTION ENGINEER / DATE	מדמדמקטי	D/DATE
R DAVERIO 9/21/82 INTERACTION ENGINEER/DATE	W GRISWOLD	9/23/82
ACCEPTABLE	<u>X</u>	POTENTIALLYUNACCEPTABLE
EVALUATION NOTE NO: 6		
EVALUATION OF INTERACTION:		
Source falls on target.		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: 8" SCREEN WASH HEADER		
TARGET: PI 1191 SENSING LINE	·	
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 80		
PHOTOGRAPH NO.: I 95		
POTENTIAL INTERACTION NO.: I-8-132-1		
LOCATION WITHIN FIRE ZONE:	•	
FIRE ZONE: 22		
BUILDING: INTAKE STRUCTURE, EL. 9		